



CUTHBERT STEWART LIMITED

INDUSTRIAL PRODUCTS GUIDE



**POWER
UTILITY**



**ELECTRICAL
& AUTOMATION**



**MANUFACTURING
& ASSEMBLY SERVICE**



**SOLAR
ENERGY**



**IDENTIFICATION
SOLUTIONS**



**HAZARDOUS
AREA**



**TEST &
MEASUREMENT**



ENCLOSURES



**LV CABLE
ACCESSORIES**

FOR ALL ENQUIRIES FREE PHONE 0800 288 423

EMAIL cs1@cuthbertstewart.co.nz **WEB** www.cuthbertstewart.co.nz

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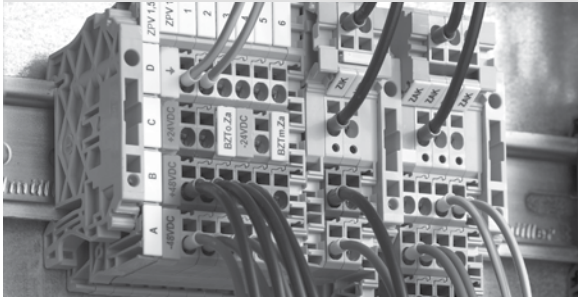
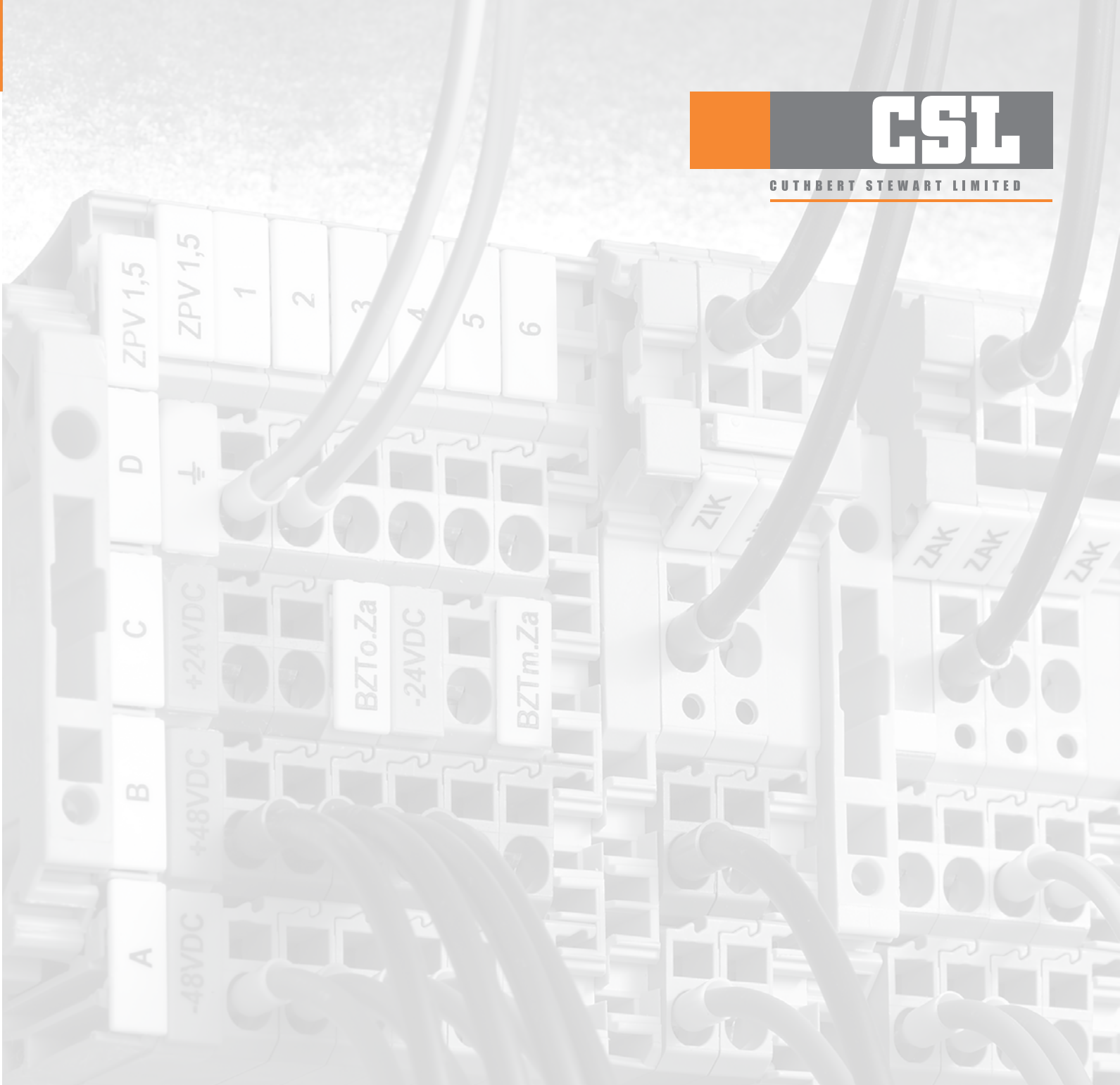
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Lined area for notes.



SECTION 1

TERMINALS//

W SERIES FEED-THROUGH //

Features	Applications
- Ex rated for hazardous use - Identical size 2.5mm² to 10mm² - VO flammability - Halogen free	- One end plate for 2.5mm² to 10mm² - Screw type and plug in type cross connects 120°C cont. temp rating - Wide wire entry

• Conductor Size: 2.5mm²		• Rating 800V 24A		• Thickness 5mm		• Type WDU2.5	
Part number	Colour			Part number	Colour		
10200000	Beige			10368000	White		
10200800	Blue			10200600	Orange		
10200200	Yellow			10200400	Red		
10377100	Brown			10377000	Violet		
10377200	Grey			10200100	Black		

• Conductor Size: 4.0mm ²		• Rating 800V 32A		• Thickness 6mm		• Type WDU4	
10201000	Beige			10367000	White		
10201800	Blue			10367600	Orange		
10201200	Yellow			10201400	Red		
10378100	Brown			10201100	Black		
10378000	Grey						

• Conductor Size: 6.0mm ²		• Rating 1000V 41A		• Thickness 8mm		• Type WDU6	
10202000	Beige			10202800	Blue		

• Conductor Size: 10.0mm ²		• Rating 1000V 57A		• Thickness 10mm		• Type WDU10	
10203000	Beige			10203800	Blue		

• Conductor Size: 16.0mm ²		• Rating 1000V 76A		• Thickness 12mm		• Type WDU16	
10204000	Beige			10204800	Blue		

• Conductor Size: 35.0mm ²		• Rating 1000V 125A		• Thickness 18mm		• Type WDU35	
10205000	Beige			1020580000	Blue		

• Conductor Size: 70.0mm ²		• Rating 1000V 192A		• Thickness 22mm		• Type WDU70	
95121900	Beige						

• Conductor Size: 95.0mm ²		• Rating 1000V 232A		• Thickness 27mm		• Type WDU70/95	
10246000	Beige *						

• Conductor Size: 120.0mm²		• Rating 1000V 269A		• Thickness 32mm		• Type WDU120/150	
10245000	Beige *						

• Conductor Size: 240.0mm ²		• Rating 1000V 415A		• Thickness 36mm		• Type WDU240	
1802780000	Beige						

NOTE: For higher current terminals see page 17 WDU70 onwards supplied complete with end plates *Also Available in sets of three

ACCESSORIES //

Part no.	Description	Type	Part no.	Description	Type
TS35 END STOPS – BEIGE					
03835600	Standard	EW35	10590000	W Series Large	WEW35/1
10612000	W Series Standard	WEW35/2	9540000000	Spring Clip Quickfix	ZEW35

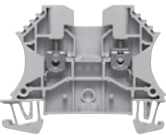
ACCESSORIES //

Part number	Type	Colour
END PLATES/PARTITIONS		
10500000	WAP 2.5-10	Beige
End Plate (for WDU 2.5-10)		
10500800		Blue
10500200	WAP 2.5-10	Yellow
10500700	WAP 2.5-10	Brown
10500500	WAP 2.5-10	Grey
10500600	WAP 2.5-10	Orange
10500400	WAP 2.5-10	Red
10500100	WAP 2.5-10	Black
Partition (for WDU 2.5-10)		
10501000	WTW 2.5-10	Beige
10501800	WTW 2.5-10	Blue
End Plate (for WDU 16 and WDU35)		
10501000	WAP 16-35	Beige
10501800	WAP 16-35	Blue

Part number	Type	Colour
EXTERNAL COMBS FOR WDU 2.5, WDU 4 AND WDU 6 ONLY		
FOR WDU 2.5 (5.0mm PITCH) 24 way (insulated)		
15790600	WQB B/24	Black
50 WAY INSULATED COMBS (6.0mm PITCH) FOR WDU 4 ONLY		
16332800	VQB 1.5/50 BL	Blue
16332900	VQB 1.5/50 RT	Red
1635120000	VQB 1.5/50 SW	Black
FOR WDU 6 (8.0mm PITCH)		
Part number	Description	Type
05454000	Bare Comb 58 way	QB 58 – straight
05453000	Bare Comb 58 way	QB 58 – angled
05460000	Insulation Strip for QB 58	INSPROF Black

NOTE: Larger end plates are sometimes used as partitions for smaller terminals
i.e.10501000 is the partition for WDU 2.5-10 and end plate for WDU 16 and WDU 35

Part number	Description	Type
CROSS CONNECTS – SCREW TYPE FOR WDU 2.5		
		YELLOW
10536600	2 way	WQV 2.5/2
10537600	3 way	WQV 2.5/3
10538600	4 way	WQV 2.5/4
10544600	10 way	WQV 2.5/10
15776000	32 way	WQV 2.5/32
CROSS CONNECTS – PLUG IN TYPE FOR WDU 2.5		
		YELLOW
16938000	2 way	ZQV 2.5N/2
16938100	3 way	ZQV 2.5N/3
16938200	4 way	ZQV 2.5N/4
16938800	10 way	ZQV 2.5N/10
1909000000	20 way	ZQV 2.5N/20 GE
16938900	50 way	ZQV 2.5N/50
		RED
1717910000	3 way	ZQV 2.5N/3
17179200	4 way	ZQV 2.5N/4
17179800	10 way	ZQV 2.5N/10
17181700	50 way	ZQV 2.5N/50
		BLACK
17180800	2 way	ZQV 2.5N/2
1718090000	3 way	ZQV 2.5N/3
17181000	4 way	ZQV 2.5N/4
17181600	10 way	ZQV 2.5N/10
1909020000	20 way	ZQV 4N/20 GE
17181900	50 way	ZQV 2.5N/50



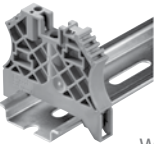
WDU2.5



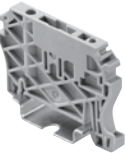
WDU70



EW35



WEW35/2



ZEW35



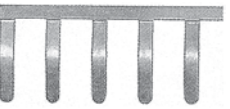
WTW2.5-10 / WAP 16-35



WQB B/24



VQB



QB58



WQV 2.5/2



WQV 2.5/10



ZQV 2.5N/2

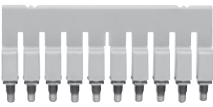


ZQV 2.5N/10

TERMINALS//



WQV 2.5/2



WQV 2.5/10



ZQV 2.5N/2



ZQV 2.5N/10

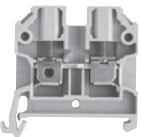
ACCESSORIES //		
Part number	Description	Type
CROSS CONNECTS – SCREW TYPE FOR WDU 4		
		YELLOW
10519600	2 way	WQV 4/2
10545600	3 way	WQV 4/3
10546600	4 way	WQV 4/4
10520600	10 way	WQV 4/10
CROSS CONNECTS – PLUG IN TYPE FOR WDU 4		
		YELLOW
1758250000	2 way	ZQV 4N/2
1762630000	3 way	ZQV 4N/3
1762620000	4 way	ZQV 4N/4
1758260000	10 way	ZQV 4N/10
1758270000	41 way	ZQV 4N/41
CROSS CONNECTS – PLUG IN TYPE FOR WDU 4		
		RED
1794040000	10 way	ZQV 4N/10 RT
1794070000	41 way	ZQV 4N/41 RT
		BLUE
1794050000	10 way	ZQV 4N/10 BL
		BLACK
1794060000	10 way	ZQV 4N/10 SW
1794090000	41 way	ZQV 4N/41 SW
CROSS CONNECTS – SCREW TYPE FOR WDU 6		
		YELLOW
10523600	2 way	WQV 6/2
10547600	3 way	WQV 6/3
10548600	4 way	WQV 6/4
10522600	10 way	WQV 6/10
CROSS CONNECTS – SCREW TYPE FOR WDU 10		
		YELLOW
10525600	2 way	WQV 10/2
10549600	3 way	WQV 10/3
CROSS CONNECTS – SCREW TYPE FOR WDU 16		
		YELLOW
10532600	2 way	WQV 16/2
10551600	3 way	WQV 16/3
CROSS CONNECTS – SCREW TYPE FOR WDU 35		
		YELLOW
10530600	2 way	WQV 35/2
10553600	3 way	WQV 35/3
CROSS CONNECTS – SCREW TYPE FOR WDU 70N		
		YELLOW
9512240000	2 way	WQV 70N/2
CROSS CONNECTS – SCREW TYPE FOR WDU 120/150		
		YELLOW
1063400000	3 way	WQV 120/3

SAK TYPE FOR TS35 DIN RAIL //					
Part number	Conductor Size	Rating	Thickness	Type	Colour
02688600	2.5mm²	500V 26A	5mm	SAKD 2.5/35	Beige
02688800					Blue
03804600	2.5mm²	750V 27A	6mm	SAK 2.5/35	Beige
03804800					Blue
04436600	4.0mm²	750V 36A	6.5mm	SAK 4/35	Beige
04436800					Blue
03805600	6.0mm²	750V 47A	8mm	SAK 6/35	Beige
04437600	10.0mm²	750V 65A	10mm	SAK 10/35	Beige
03806600	16.0mm²	750V 87A	12mm	SAK 16/35	Beige
06082600	35.0mm²	750V 143A	16mm	SAK 35N/35	Beige
01391600	70.0mm²	750V 220A	22mm	SAK 70/35	Beige
06622200	95.0mm²	750V 258A	28mm	SAK 95/35	Brown Melamine

ACCESSORIES //			
Part number	Description	Type	Colour
TS35 END STOPS			
03835600	Standard	EW35	Beige
10612000	W Series Shape Standard	WEW35/2	Beige
10590000	W Series Shape Large	WEW35/1	Beige
9540000000	Spring Clip Quickfix	ZEW35	Beige
END PLATES/PARTITIONS			
01509600	End Plate (for SAKD 2.5/35)	AP	Beige
01918600	Partition (for SAKD 2.5/35)	TW	Beige
04605600	End Plate (for SAK 2.5/35)	AP	Beige
04605800			Blue
03028600	Partition (for SAK 2.5/35)	TW	Beige
03028800			Blue
01179600	End Plate (for SAK 4/35)	AP	Beige
01179800			Blue
01301600	Partition (for SAK 4/35)	TW	Beige
01301800			Blue
01179600	End Plate (for SAK 6/35)	AP	Beige
01179800			Blue
01301600	Partition (for SAK 6/35)	TW	Beige
01301800			Blue
01179600	End Plate (for SAK 10/35)	AP	Beige
01179800			Blue
01301600	Partition (for SAK 10/35)	TW	Beige
01301800			Blue
02711600	End Plate (for SAK 16/35)	AP	Beige
03036600	Partition (for SAK 16/35)	TW	Beige
03036600	End Plate (for SAK 35N/35)	AP	Beige
03043600	Partition (for SAK 35N/35)	TW	Beige
03409600	End Plate (for SAK 70/35)	AP	Beige

NOTE: Larger end plates are sometimes used as partitions for smaller terminals i.e. 03036600 is the partition for SAK 16/35 and end plate for SAK 35N/35

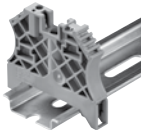
TERMINALS//



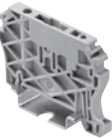
SAK 4



SAK 70



WEW35/1



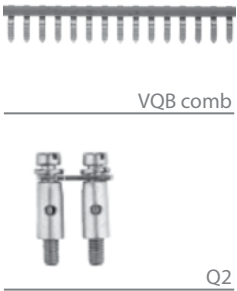
ZEW35



EW35



AP



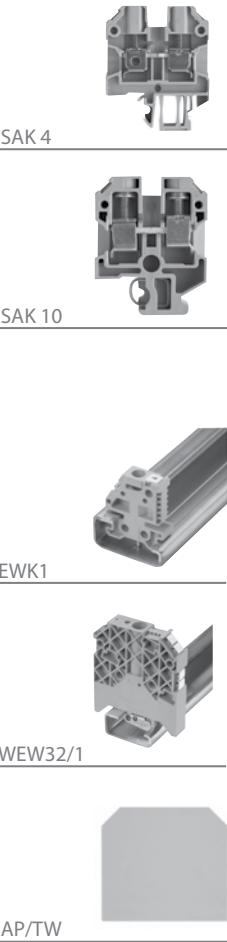
ACCESSORIES //		
Part number	Description	Type
EXTERNAL COMBS		
50 WAY INSULATED COMB FOR TERMINALS 6mm THICK (SAK 2.5/35)		
16332800	50 way blue (6mm pitch)	VQB 1.5/50BL
16332900	50 way red (6mm pitch)	VQB 1.5/50RT
1635120000	50 way black (6mm pitch)	VQB 1.5/50SW
25 WAY BARE COMB FOR TERMINALS 6.5mm THICK (SAK4/35)		
01340000	25 way (13.5mm tooth length) QB 25	
CROSS CONNECT BARS COMPLETE		
• Separate bars, screws and sleeves also available		• For greater than 10 way, use separate QL2 bar to join
FOR SAKD 2.5/35 (5mm thick 2.5mm² terminal)		
03678000	2 way	Q2
03681000	10 way	Q10
02158000	Separate 2 way bar for joining	QL2
FOR SAK 2.5/35 (6mm thick 2.5mm² terminal)		
03370000	2 way	Q2
03371000	3 way	Q3
03372000	4 way	Q4
03687000	10 way	Q10
01559000	Separate 2 way bar for joining	QL2
FOR SAK 4/35		
03367000	2 way	Q2
03368000	3 way	Q3
03369000	4 way	Q4
03688000	10 way	Q10
01306000	Separate 2 way bar for joining	QL2
FOR SAK 6/35		
04567000	2 way	Q2
04568000	3 way	Q3
04569000	4 way	Q4
04570000	10 way	Q10
01943000	Separate 2 way bar for joining	QL2
FOR SAK 10/35		
04571000	2 way	Q2
04574000	10 way	Q10

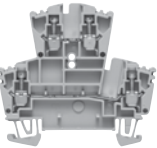
For SAK 16 Terminals and above, contact CSL

SAK TYPE FOR TS32 C RAIL //					
Part number	Conductor Size	Rating	Thickness	Type	Colour
02155600	2.5mm²	500V 26A	5mm	SAKD 2.5N	Beige
02796600	2.5mm²	750V 27A	6mm	SAK 2.5	Beige
02796800					Blue
01283600	4.0mm²	750V 36A	6.5mm	SAK 4	Beige
01283800					Blue
01932600	6.0mm²	750V 47A	8mm	SAK 6N	Beige
01100600	10.0mm²	750V 65A	10mm	SAK 10	Beige
02710600	16.0mm²	750V 87A	12mm	SAK 16	Beige
05506600	35.0mm²	750V 143A	16mm	SAK 35N	Beige

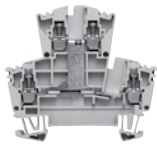
ACCESSORIES //			
Part number	Description	Type	Colour
TS32 END STOPS			
02061600	Standard	EWK1	Beige
01993600	Large	EWK2	Beige
10676000	W Series Type	WEW32/1	Beige
END PLATES/PARTITIONS			
01509600	End Plate (for SAKD 2.5N)	AP	Beige
01918600	Partition (for SAKD 2.5N)	TW	Beige
02795600	End Plate (for SAK 2.5)	AP	Beige
03028600	Partition (for SAK 2.5)	TW	Beige
03028800			Blue
01179600	End Plate (for SAK 4)	AP	Beige
01179800			Blue
01301600	Partition (for SAK 4)	TW	Beige
01301800			Blue
01179600	End Plate (for SAK 6N)	AP	Beige
01179800			Blue
01301600	Partition (for SAK 6N)	TW	Beige
01301800			Blue
01179600	End Plate (for SAK 10)	AP	Beige
01179800			Blue
01301600	Partition (for SAK 10)	TW	Beige
01301800			Blue
02711600	End Plate (for SAK 16)	AP	Beige
03036600	Partition (for SAK 16)	TW	Beige
03036600	End Plate (for SAK 35N)	AP	Beige
03043600	Partition (for SAK 35N)	TW	Beige
03409200	End Plate (for SAK 70)	AP	Brown Melamine

For cross connects refer to page 10 – (SAK TS35 section)
NOTE: Larger end plates are sometimes used as partitions for smaller terminals i.e. 03036600 is the partition for SAK 16 and end plate for SAK 35N

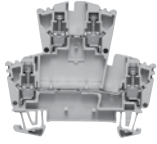




WDK2.5



WDK2.5V



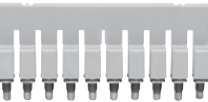
WDK2.5E/O



WAP



WTW



WQV2.5/10



ZQV2.5N/2



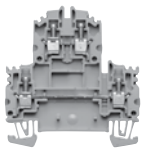
ZQV2.5N/10

W SERIES 2 LEVEL WDK 2.5MM² //

Part number	Conductor Size	Rating	Thickness	Type	Colour
2 level standard					
10215000	2.5mm²	400V 24A	5mm	WDK2.5	Beige
1021580000					Blue
2 level cross connect plug in					
1041100000	2.5mm²	400V 24A	5mm	WDK2.5/ZQV	Beige
2 level – commoned top and bottom					
10223000	2.5mm²	400V 24A	5mm	WDK2.5V	Beige
2 level feed-through top/bottom earth					
1036400000	2.5mm²	400V 24A	5mm	WDK2.5DU-PE	Beige
2 level component holder – for resistors and diodes					
10232000	2.5mm²	400V 10A	5mm	WDK2.5E/0	Beige
2 level with bottom bar split – for components					
1023100000	2.5mm²	400V 10A	5mm	WDK2.5SPLCBAR	Beige

ACCESSORIES //

Part number	Description	Type	Colour
END PLATES/PARTITIONS			
10591000	End Plate (for WDK2.5 2 level)	WAP	Beige
1059180000			Blue
10588000	Partition (for WDK2.5 2 level)	WTW	Beige
EXTERNAL COMB			
24 way insulated for all WDK 2.5mm² 2 level			
15790000	24 way	WQBA/24	Black
CROSS CONNECTS			
FULLY INSULATED SCREW TYPE			
10536600	2 way	WQV2.5/2	Yellow
10537600	3 way	WQV2.5/3	Yellow
10538600	4 way	WQV 2.5/4	Yellow
10544600	10 way	WQV2.5/10	Yellow
15776000	32 way	WQV2.5/32	Yellow
PLUG IN TYPE For WDK 2.5/ ZQV only			
16938000	2 way	ZQV2.5N/2	Yellow
16938100	3 way	ZQV2.5N/3	Yellow
16938200	4 way	ZQV2.5N/4	Yellow
16938800	10 way	ZQV2.5N/10	Yellow
190900000	20 way	ZQV2.5N/20	Yellow
16938900	50 way	ZQV2.5N/50	Yellow
17179800	10 way	ZQV2.5N/10	Red
17181700	50 way	ZQV2.5N/50	Red
17181600	10 way	ZQV2.5N/10	Black
17181900	50 way	ZQV2.5N/50	Black



WDK4N

W SERIES 2 LEVEL WDK4N 4MM² //

Part number	Conductor Size	Rating	Thickness	Type	Colour
2 level standard					
1041900000	4.0mm²	800V 32A	6mm	WDK4N	Beige

ACCESSORIES //

Part number	Description	Type	Colour
TS35 END STOPS			
03835600	Standard	EW35	Beige
10612000	W Series Standard	WEW35/2	Beige
10590000	W Series Large	WEW35/1	Beige
9540000000	Spring Clip Quickfix	ZEW35	Beige
END PLATES/PARTITIONS			
1084000000	End Plate (for WDK4N 2 level)	WAP	Beige
10588000	Partition (for WDK4N 2 level)	WTW	Beige
INSULATED COMBS			
16332800	50 way	VQB1.5/50BL	Blue
16332900	50 way	VQB1.5/50RT	Red
1635120000	50 way	VQB1.5/50SW	Black
CROSS CONNECTS			
PLUG IN TYPE			
1758250000	2 way	ZQV4N/2	Yellow
1762630000	3 way	ZQV4N/3	Yellow
1762620000	4 way	ZQV4N/4	Yellow
1758260000	10 way	ZQV4N/10	Yellow
19090200000	20 way	ZQV4N/20	Yellow
1758270000	41 way	ZQV4N/41	Yellow



WAP



ZQV4N/2



DK4 TYPE TS35 //

Part number	Conductor Size	Rating	Thickness	Type	Colour
2 level standard					
05276600	4.0mm²	440V 27A	6mm	DK4/35	Beige
2 level standard with cross connect option bottom					
05901600	4.0mm²	440V 27A	6mm	DK4Q/35	Beige
2 level commoned top and bottom					
03636600	4.0mm²	440V 27A	6mm	DK4QV/35	Beige
2 level through top/bottom bar split					
11155600	4.0mm²	440V 27A	6mm	DK4/35	Beige

ACCESSORIES //

Part number	Description	Type	Colour
TS35 END STOPS			
03835600	Standard	EW35	Beige
10612000	W Series Standard	WEW35/2	Beige
10590000	W Series Large	WEW35/1	Beige
9540000000	Spring Clip Quickfix	ZEW/35	Beige

For End Plates and Cross Connects see below

DK4 TYPE TS32 //

Part number	Conductor Size	Rating	Thickness	Type	Colour
2 level standard					
15379600	4.0mm²	440V 27A	6mm	DK4	Beige
2 level standard with cross connect option bottom					
05900600	4.0mm²	440V 27A	6mm	DK4Q	Beige
2 level commoned top and bottom					
05902600	4.0mm²	440V 27A	6mm	DK4QV	Beige
2 level through top/bottom bar split					
30096300	4.0mm²	440V 27A	6mm	DK4	Beige

ACCESSORIES //

Part number	Description	Type	Colour
TS32 END STOPS			
02061600	Standard	EWK1	Beige
01993600	Large	EWK2	Beige
10676000	W Series Type	WEW32/1	Beige

END PLATES/PARTITIONS

03592600	End Plate (for DK4 and DK4/35)	AP	Beige
38335000	Partition (for DK4 and DK4/35)	TW	Beige
13971600	End Plate (for DK4Q and DK4QV TS32 + TS35)	AP	Beige
10588000	Partition (for DK4Q and DK4QV)	TW	Beige

CROSS CONNECTS – COMPLETE

03364000	2 way	Q2
03365000	3 way	Q3
03686000	10 way	Q10

TS35 3 & 4 LEVEL //

Part number	Conductor Size	Rating	Thickness	Type	Colour
3 level feed-through all levels					
1784180000	2.5mm²	250V 20A	6mm	DLD2.5/35	Beige
3 level plus earth					
16152700	4.0mm²	440V 27A	6mm	MAK2.5/35	Beige
3 level proximity detector terminal					
1783820000	2.5mm²	250V 20A	6mm	DLI2.5/35	Beige
4 level (4 wire initiator/actuator)					
16332500	2.5mm²	250V 17.5A	6mm	VLI1.5	Beige

NOTE: LED indication versions also available

ACCESSORIES //

Part number	Description	Type	Colour
TS35 END STOPS			
03835600	Standard	EW35	Beige
10612000	W Series Standard	WEW35/2	Beige
10590000	W Series Large	WEW35/1	Beige
9540000000	Spring Clip Quickfix	ZEW35	Beige

END PLATES

16152800	for MAK2.5/35	APMAK	Beige
1784150000	for VLI1.5	APVLI1.5	Beige
1784210000	for DLD2.5	APDLD	Beige
1783550000	for DLI2.5	APDLI	Beige
1784220000	Small part end plate for DLD	APDLD	Beige

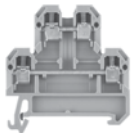
CROSS CONNECTION (jumper bars complete) For DLI and DLD (Not suitable for MAK 2.5 and VLI)

13127000	4 way	Q4
13131000	10 way	Q10
13998000	20 way	Q20

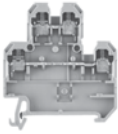
EXTERNAL COMBS 6mm pitch (for all of the above terminals)

50 WAY INSULATED COMBS complete with Red, Blue or Black insulation

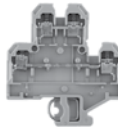
16332800		VQB1.5/50BL	Blue
16332900		VQB1.5/50RT	Red
1635120000		VQB1.5/50SW	Black



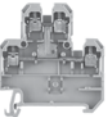
DK4/35



DK4Q/35



DK4Q



DK4QV



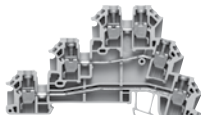
EWK1



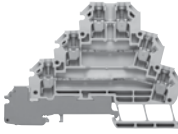
DK4 End Plate



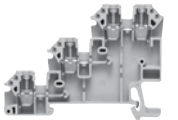
Q2



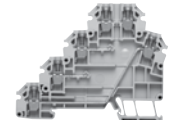
DLD2.5/35



MAK2.5/35



DLI2.5/35



VLI1.5



AP



Q2



VQB



DK4 2 LEVEL WITH IN4007 DIODE(S) //

2 LEVEL WITH IN4007 DIODE(S)

Part number		Rail Mount	Type	Part number		Rail Mount	Type
039636IN		TS35	DK4D/35	039666IN		TS35	DK4D/35
054466IN		TS32	DK4D	064276IN		TS32	DK4D
980105IN		TS35	DK4D/35	980106IN		TS35	DK4D/35
067206IN		TS32	DK4D	067216IN		TS32	DK4D
053886IN		TS35	DK4D/35	039676IN		TS35	DK4D/35
046796IN		TS32	DK4D	066396IN		TS32	DK4D
053896IN		TS35	DK4D/35	039686IN		TS35	DK4D/35
048406IN		TS32	DK4D	052376IN		TS32	DK4D

Also available in W series 2 level housing; contact CSL

ACCESSORIES //

TS35 END STOPS			TS32 END STOPS	
Part number	Description	Type	Part number	Type
03835600	Standard	EW35	02061600	EWK1
10612000	W Series Standard	WEW35/2	01993600	EWK2
10590000	W Series Large	WEW35/1	10676000	WEW32/1
9540000000	Spring Clip Quickfix	ZEW35		
END PLATES/PARTITIONS			EXTERNAL COMBS	
03592600	End Plate (for DK4D and DK4D/35)	AP	50 way insulated combs complete with Red, Blue or Black insulation	
38335000	Partition (for DK4D and DK4D/35)	TW	16332800	VQB1.5/50BL Blue
			16332900	VQB1.5/50RT Red
			1635120000	VQB1.5/50SW Black

SPECIFICATIONS:			
Diode: Peak inverse voltage	1000Vdc	Max Current (through bus bar)	10A
Max forward current	1ADC	Conductor size	4.0mm² max
Terminal: Max voltage	440V		

W SERIES WDK TYPE TS35 // LED INDICATION TERMINALS

Part number	Voltage	Width	LED Colour	Type
DC TYPES				
80236300	24 Vdc	5mm	Red	WDK2.5LD
AC TYPES				
80190500	24 Vac	5mm	Red	WDK2.5LD

ACCESSORIES //

TS35 END STOPS			END PLATES/PARTITIONS			
Part number	Description	Type	Part number	Description	Colour	Type
03835600	Standard	EW35	10591000	End Plate (for all WDK2.5LD 2 level)	Beige	WAP
10612000	W Series Standard	WEW35/2	1059180000		Blue	
10590000	W Series Large	WEW35/1	10588000	Partition (for all WDK2.5LD 2 level)	Beige	WTW
CROSS CONNECTS						
10536600	2 way	WQV 2.5/2	EXTERNAL COMB			
10537600	3 way	WQV 2.5/3	24 way insulated for all WDK 2 level			
10538600	4 way	WQV 2.5/4	15790000	24 way	Black	WQBA/24
10544600	10 way	WQV 2.5/10	NOTE: Other LED colours and voltages available			

TYPE KST SINGLE STUD TERMINALS //

Part number	Conductor Size	Rating	Stud	Type
TS35 Polyamide 100°C				
95069400	16mm²	1000V 76A	M6	KST6
95069500	35mm²	1000V 125A	M8	KST8
95069600	70mm²	1000V 192A	M10	KST10
95069700	95mm²	1000V 232A	M12	KST12

ACCESSORIES //

Part number	Description	Type
TS35 END STOPS		
03835600	Standard	EW35
10612000	W Series Standard	WEW35/2
10590000	W Series Large	WEW35/1
END PLATES/PARTITION		
1718530000	Partition Right (all types)	WTW right
1752800000	Partition Left (all types)	WTW left *

* NOTE: WTW left is only required once at beginning of the row

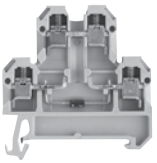
W SERIES WF & WFF HIGH CURRENT TERMINALS //

Part number	Description	Rating	Type	Rail Type
TYPE WF SINGLE STUD TERMINALS				
TS35				
1780850000	M6 Stud	1000V 76A	WF6	TS35
1780860000	M8 Stud	1000V 125A	WF8	TS35
1780870000	M10 Stud	1000V 192A	WF10	TS35
TYPE WFF 2 STUD TERMINALS				
10283000	M6	1000V 125A	WFF35	TS35
10284000	M8	1000V 192A	WFF70	TS35
10285000	M10	1000V 269A	WFF120	TS35
10286000	M12	1000V 353A	WFF185	TS35

ACCESSORIES //

Part number	Description	Type
CROSS CONNECTS		
FOR WFF70		
10650000	2 way	WQL2/70
HINGED COVER		
10644600	for WFF35	WAH35
10645600	for WFF70	WAH70
10646600	for WFF120	WAH120

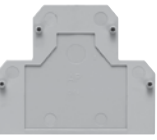
NOTE: For hinged cover 2 required per stud terminal



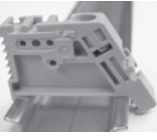
DK4D



ZEW35



AP DK4



EW35



WDK2.5LD



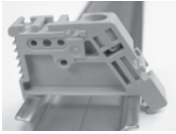
WAP WDK2.5



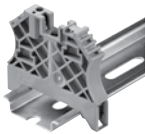
WQV 2.5/10



KST10



EW35



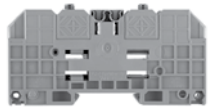
WEW35/1



WTW



WF10



WFF35



WQL2/70



WAH35



PLUG IN FUSE TERMINALS //					
Features					
5mm and 6mm Wide - Turns a disconnect terminal into a fuse terminal in seconds					
Part number	Description	Thick-ness	Rating	Fuse Size	Type
WTR2.5 Terminal plus SIHA 1 Fuse Holder					
7921560000	Fuse Holder – For all WTR terminals	5mm	250/400V 6.3A	20mmx5mm	SIHA3
1855610000	Terminal – 2.5mm ²	5mm	800V 16A	NA	WTR2.5
1855620000	Terminal – 2.5mm ² (with test socket screws)	5mm	800V 16A	NA	WTR2.5
7910180000	Terminal – 4mm ²	6mm	400V 24A	NA	WTR4
7910210000	Terminal – 4mm ² (with test socket screws)	6mm	400V 24A	NA	WTR4
For WTR2.5 and WTR4 accessories – refer to disconnect teminals – next section					
LED indication (fuse blown) versions available – contact CSL					
95376800	Plastic Cord				SIHA/V

TS35 W SERIES WSI6 LEVER TYPE FUSE //					
Part number	Conductor Size/Voltage/Description	Thickness	Rating	Type	Colour
20mm x 5mm 6.3 amp WSI6					
10110000	10.0mm ²	8mm	500V 6.3A	WSI6	Beige
LED INDICATION VERSIONS (Fuse Blown) Colour Red					
101100L12D	12 Vdc	8mm	500V 6.3A	WSI6	Beige
101100LD	24 Vdc	8mm	500V 6.3A	WSI6	Beige
101100LA	24 Vac	8mm	500V 6.3A	WSI6	Beige
101100L1	110 Vac	8mm	500V 6.3A	WSI6	Beige
101100L1D	110 Vdc	8mm	500V 6.3A	WSI6	Beige
101100L2	240 Vac	8mm	500V 6.3A	WSI6	Beige
For fuse link ordering information, see end of Fuse Terminal section. Other voltages, LED colours and Coloured WSI6 fuse terminals available – contact CSL.					
CROSS CONNECTS – 2, 3 and 4 way also available (screws required – order separately)					
(installed utilising knockouts)					
FOR WSI6					
03383000	10 way			QL10 bar	
NOTE: Screws for QL bars – 2 required for 2 way, 3 for 3 way.					
10521000	SCREWS			BS (M3x5)	
BARE COMBS AND INSULATION STRIP (58 way)					
05454000	Bare comb			QB58 – straight	
05453000	Bare comb			QB58 – angled	
05460000	Insulation strip for above			INSPROF	

WSI6/2 16AMP RATED //				
Part number	Conductor Size	Thickness	Rating	Type
for inch fuses 1"x 1/4" and 11/4"x 1/4"				
10140000	10.0mm ²	12mm	500V 16A	WSI6/2



ACCESSORIES FOR WSI6 and WSI6/2 //		
Part number	Conductor Size/Description	Type
END PLATES/PARTITIONS		
10500000	End Plate	WAP2.5-10
10501000	Partition	WTW2.5-10
CROSS CONNECTS		
FOR WSI6/2		
04707000	2 way	QL2
04710000	10 way	QL10
10521000	Screw for Cross Connect bars	BS M3X5

KSK TYPE //					
Part number	Conductor Size/Description	Thickness	Rating	Fuse Size	Type
Fuse Terminal KSK (lock up carrier type) (enables circuit lockout)					
*MELAMINE THERMOSET TS35 & TS32					
38978200	10.0mm ²	13mm	250V 6.3A	20 x 5 and 25 x 5mm	KSK1/35(TS35)
38974200	10.0mm ²	13mm	250V 6.3A	20 x 5 and 25 x 5mm	KSK1(TS32)
38975200	10.0mm ²	13mm	250V 13A	11/4" x 1/4	KSK2(TS32)
38980200	10.0mm ²	13mm	440V 15A	11/4" x 1/4	KSK3/35(TS35)
38976200	10.0mm ²	13mm	440V 15A	11/4" x 1/4	KSK3(TS32)

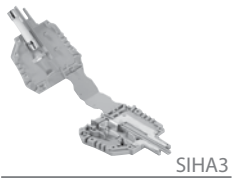
Part number	Conductor Size/Description	Type
TS35 END STOPS		
03835600	Standard	EW35
10612000	W Series Standard	WEW35/2
10590000	W Series Large	WEW35/1
9540000000	Spring Clip Quickfix	ZEW/35
TS32 END STOPS		
02061600	Standard	EWK1
01993600	Large	EWK2
10676000	W Series	WEW32/1

For fuse link/cartridge ordering information – refer to the end of the Fuse Terminal Section

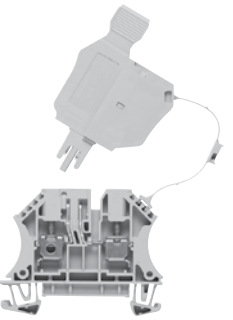
* Note: WEMID W series versions also available – Type KSKM1, KSKM2 and KSKM3

WSI 25 FUSE TERMINALS 120KA 32Amp 415Volt //				
Type	Description	Application	Part Number	
WSI 25 Fuse Terminals	WSI25 120kA HRC DIN Rail Mount Fuse Holder	Recommended fuse holder for all Weidmüller SPD devices and 45Volt applications	1 Pole	1966020000
			2 Pole	1966020000
			3 Pole	1966080000

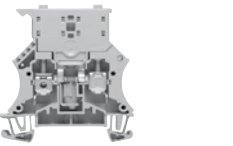
HRC FUSES FOR WSI 25 FUSE HOLDERS //			
Part number	Amperage	Part number	Amperage
FUSE654388	4 AMP	FUSE16035	16 AMP
FUSE16027	8 AMP	FUSE16039	25 AMP
FUSE16031	10 AMP	FLUKE16043	32 AMP



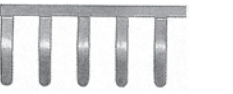
SIHA3



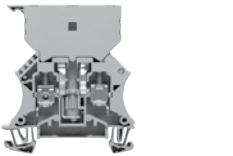
WTR with SIHA & Plastic Cord



WSI6



QB58



WSI6/2



WTW2.5-10



QL2



KSK1/35



WSI 25 Fuse Terminals



HRC Fuse



ASK1 & KDKS1 LEVER TYPE FUSE //

TS35 and TS32 – 1, 2 & 3 Level Fuse Terminals

20mm x 5mm 250V 6.3AMP

Part number	Conductor Size	Thickness	Rating	Type
1 LEVEL				
04745600	4mm²	8mm	250V 6.3A	ASK1 multfoot
03767600				ASK1 (TS32)
2 LEVEL				
95324400	4mm²	8mm	500V 6.3A	KDKS1/EN4 multfoot
3 LEVEL (3rd level = earth)				
9532450000	4mm²	8.2mm	250V 6.3A	KDKS1/PE (TS35)

NOTE: SAK Colour version = Cat N° 950331000

LED INDICATION VERSIONS (Fuse Blown) Colour Red (other LED colours and voltages available)

1 LEVEL ASK1 type		
02227600	24 Vdc	ASK1LD
02228600	24 Vac	ASK1LD
02255600	110 Vac	ASK1LD
02257600	240 Vac	ASK1LD
2 LEVEL		
953244LD	24 Vdc	KDKS1/35LD
3 LEVEL (3rd level = earth)		
953245LD	24 Vdc	KDKS1/PE LD

ASK1 & KDKS1 LEVER TYPE FUSE ACCESSORIES //

Part number	Conductor Size	Type
-------------	----------------	------

END PLATES/PARTITIONS

03803600	End Plate (for ASK1)	AP
9532470000	End Plate (for KDKS1/PE and KDKSI)	AP

Partition for ASK1 multfoot not available.

04747000	Partition (for ASK1 TS32)	TW
06070000	Partition (for KDKS1 and KDKS1/PE)	TW

EXTERNAL COMBS INSULATED FOR 2, 3 & 4 WAY FOR ASK1

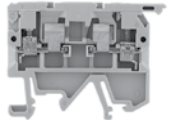
04611000	2 way	QB2
04612000	3 way	QB3
04613000	4 way	QB4

BARE COMB FOR ASK1 – ALL TYPES

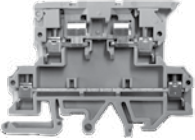
05454000	58 way (8mm pitch) straight	QB58
05453000	58 way (8mm pitch) angled	QB58

INSULATION STRIP FOR ALL BARE COMBS (listed above)

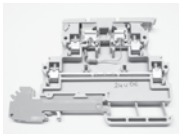
05460000	58 way	INSPROF
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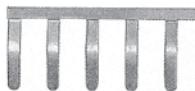
ASK1 multfoot



KDKS1/EN4



KDKS1/PE LD



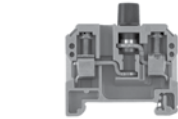
QB58



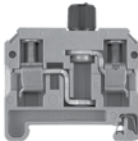
FUSE TERMINAL SAKS TYPE SCREW CAP FUSE TERMINALS //				
Part number	Conductor Size/Description	Thickness	Rating	Type
SAKS1/35 (TS35) & SAKS1 (TS32)				
[20x5mm fuse without indicator]				
05016200	10mm ²	13mm	250V 6.3A	SAKS1/35
01912200	10mm ²	13mm	250V 6.3A	SAKS1/32
0282110000	Spare cap			FCS (black)
[25x5mm fuse with indicator]				
05015200	10mm ²	13mm	250V 6.3A	SAKS1/35
01911200	10mm ²	13mm	250V 6.3A	SAKS1/32)
02820100	Spare Cap			FCS (black)
SAKS3/35 (TS35) & SAKS3 (TS32)				
[1" x 1/4" fuse] Red Cap				
06674200	10mm ²	13mm	250V 13A	SAKS3/35
0211120000	10mm ²	13mm	250V 13A	SAKS3/32
04288100	Spare Cap			FCS (red)
[11/4"x 1/4" fuse] Black Cap				
06675200	10mm ²	13mm	250V 10A	SAKS3/35
02489200	10mm ²	13mm	250V 10A	SAKS3/32)
SAKS2/35 (TS35) & SAKS2 (TS32)				
13687200	[E16 fuse] 10mm ²	28mm	500V 25A	SAKS2/35
02068200	[E16 fuse] 10mm ²	28mm	500V 25A	SAKS2/32)
0284110000	Spare Cap			FCS (black)
SAKS4/35 (TS35) & SAKS4 (TS32)				
[E14 fuse] neozed indicating				
05018200	10mm ²	24mm	415V 16A	SAKS4/35
03213200	10mm ²	24mm	415V 16A	SAKS4/32
03394100	Spare Cap			FCS (black)
SAKS5/35 (TS35) & SAKS5 (TS32)				
[E18 fuse] neozed				
0502120000	16mm ²	28mm	440V 63A	SAKS5/35
03593100	Spare Cap			FCS (black)
LED and Neon (fuse blown) indicating types also available				
For fuse info link/cartridge ordering information – refer to the end of the Fuse Terminal Section				

FUSE TERMINAL SAKS TYPE SCREW CAP FUSE TERMINALS ACCESSORIES //					
Part number		Description			Type
END PLATES/PARTITIONS					
06070000		Partition (for SAKS1, SAKS2, SAKS3, SAKS4 and SAKS5)			TW
NOTE: only for TS32 mount versions					
CROSS CONNECTS (order bars and screws separately)					
FOR SAKS1, SAKS1/35 & SAKS3, SAKS3/35					
01914000	2 way	QL2	03388000	10 way	QL10
01915000	3 way	QL3	01997000	Screws for QL	BS
FOR SAKS2, SAKS2/35 & SAKS5, SAKS5/35					
03389000	10 way	QL10	01364000	Washer (1 per screw)	SS
01033000	Screw for QL	BS			
FOR SAKS4 & SAKS4/35					
0328200000	4 way	QL4	01033000	Screw for QL	BS
03390000	10 way	QL10	01364000	Washer (1 per screw)	SS

FUSE TERMINAL ZSI 2.5 TYPE WITH OR WITHOUT LED (TS35) //				
20mm x 5mm Fuse				
Part number	Conductor Size/Description	Thickness	Rating	Type
1616400000	2.5mm²	7.9mm	500V 6.3 amp	ZSI 2.5
LED INDICATION VERSIONS				
16164024VACYL	2.5mm²/24Vac LED yellow	7.9mm		ZSI 2.5 24Vac
161640L2	2.5mm²/230Vac LED green	7.9mm		ZSI 2.5 230Vac
161640LD	2.5mm²/24Vdc LED red	7.9mm		ZSI 2.5 24Vdc



SAKS 1/35



SAKS 3/35



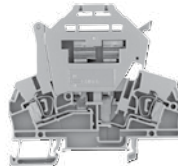
SAKS2/35



SAKS4/35



TW



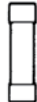
LIST OF PREFERRED CARTRIDGE LINKS //

Part number	Rating	
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Terminal Type: KSK1, ASK1, KDKS, WSI6		
Non-indicator cartridge fuse 20 x 5mm to IEC 127 CEE Type 1 DIN 4 1660 250 Volts		

04303000	0.1	
04304000	0.2	
04305000	0.25	
04306000	0.5	
04307000	1	
04308000	1.6	
04309000	2	
04310000	2.5	
04311000	3.15	
04312000	4	
04313000	5	
04314000	6.3	

Terminal Type: KSK1, SAKS1		
Indicator cartridge fuse 25 x 5mm TO DIN 41576/CEE 250 Volts		

04291000	0.1	
04292000	0.125	
04294000	0.2	
04295000	0.25	
04297000	0.5	
04298000	0.8	
06802000	1	
06803000	2	
06804000	4	
06805000	6	

Terminal Type: KSK 2, SAKS3 WSI 6/2		
Cartridge fuse (1" x 1/4") to BS 1362 250 Volts		

04324000	1	
02451000	2	
7940034232	3	
02452000	5	
04586000	7	
02453000	10	
02454000	13	

Cartridge fuse (11/4" x 1/4") to DEF59-96 Size 'O' 440 Volts		
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04320000	1	
02945000	2	
02946000	5	
02958000	7	
02939000	10	



Part number	Rating	Type
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Terminal Type SAKS 4		
Indicating neozed fuse suitable for 380/415 Volts applications		

03285000	16	E 14/16
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The fitting of gauge rings is recommended when using fuses of a low rating.

SAKS 2/35		
HRCV fuse cartridge 500 Volts		

FAST BLOW TYPE

03174000	2		E 16/2
03175000	4		E 16/4
03176000	6		E 16/6
02085000	10		E 16/10
02086000	16		E 16/16
02087000	20		E 16/20
02088000	25		E 16/25

Terminal Type: SAKS 5		
Neozed fuse suitable for 440 Volts application		
03617000	63	E 18/63

The fitting of gauge rings is recommended when using fuses of a low rating.



TS35 WTR2.5 LEVER TYPE //

Part number	Conductor Size	Thickness	Rating	Type	Colour
1855610000	2.5mm²	5mm	800V 16A	WTR2.5	Beige
8731640000					Blue

WITH TEST SOCKET SCREWS					
1855620000	2.5mm²	5mm	800V 16A	WTR2.5	Beige

TS35 WTR4 LEVER TYPE //

WITH PLUG IN CROSS CONNECTION STANDARD LEVER TYPE					
7910180000	4.0mm²	6mm	400V 24A	WTR4	Beige
7910190000					Blue

WITH TEST SOCKET SCREWS					
7910210000	4.0mm²	6mm	400V 24A	WTR4	Beige

2 LEVEL DISCONNECT – BOTH LEVEL (MULTIFOOT) //

95280700	2.5mm²	6.2mm	400V 16A	WDTR2.5	Beige
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2 LEVEL DISCONNECT – TOP/FEEDTHROUGH BOTTOM // *

1247290000	2.5mm²	5.1mm²	300V 24A	WDK2.5/TR-DU	Beige
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3 LEVEL DISCONNECT – TOP/FEEDTHROUGH/EARTH // *

1247420000	2.5mm²	5.1mm²	300V 24A	WDK2.5/TR-DU-PE	Beige
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END PLATE = Cat No 1839850000. CROSS CONNECTS Refer WDU2.5 Versions.
* NOTE: Can be turned into a fuse terminal with SIHA fuse holder. Refer to fuse terminal section on page 18 for details.

ACCESSORIES //

TS35 END STOPS			END PLATES/PARTITIONS			
03835600	Standard	EW35	10500000	End Plate	WAP2.5-10	Beige
10612000	W Series Standard	WEW35/2	10500800	(for WTR2.5)	WAP2.5-10	Blue
10590000	W series Large	WEW35/1	10501000	Partition (for	WTW2.5-10	Beige
9540000000	Spring Clip Quickfix	ZEW/35	10501800	WTR2.5)	WTW2.5-10	Blue

NOTE: End Plate not required for WDTR2.5 2 level – supplied with terminal way bar QL2 021580.00

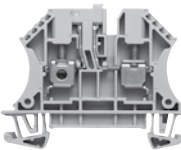
For coloured End Plates see W Series Feed-Through Terminals Section

ACCESSORIES //

CROSS CONNECTS – PLUG IN					
FOR WTR 2.5 – YELLOW			FOR WTR4 only		
16938000	2 way	ZQV2.5N/2	1758250000	2 way	ZQV4N/2
16938100	3 way	ZQV2.5N/3	1762630000	3 way	ZQV4N/3
16938200	4 way	ZQV2.5N/4	1762620000	4 way	ZQV4N/4
16938800	10 way	ZQV2.5N/10	1758260000	10 way	ZQV4N/10
16938900	50 way	ZQV2.5N/30	1758270000	41 way	ZQV4N/41
EXTERNAL COMBS – INSULATED			MISCELLANEOUS		
FOR WTR2.5 (6mm pitch)					
16332900	50 way	VQB1.5/50RT Red			
16332800	50 way	VQB1.5/50BL Blue			
			1635120000	50 way	VQB1.5/50SW Black

NOTE: 1. Also available are W Series disconnect slidelink terminal blocks type WTL for various CT and VT configurations refer page 31
2. Other cross connect colours available

Please contact CSL or refer to the latest terminal catalogue



WTR4



WDTR2.5



WDK2.5



ZQV4N/2



VQB1.5/50RT

SAKR & DKT4 (2 LEVEL) //

SAKR TS35/TS32 & DKT4

(2 LEVEL) TS35 STANDARD

LEVER TYPE DISCONNECT



SAKR STANDARD LEVER TYPE RAIL MOUNTS //

Part number	Conductor Size	Thickness	Rating	Type	Colour
TS35 RAIL MOUNT					
01721600	4mm²	6.5mm	400V 10A	SAKR/35	Beige
0172180000	4mm²				Blue
WITH TEST SOCKET SCREWS					
01833600	4mm²	6.5mm	400V 10A	SAKR/35	Beige
TS32 RAIL MOUNT					
04121600	4mm²	6.5mm	400V 10A	SAKR	Beige
04121800	4mm²				Blue
WITH TEST SOCKET SCREWS					
04122600	4mm²	6.5mm	400V 10A	SAKR	Beige
04122800	4mm²				Blue

ACCESSORIES //

TS35 END STOPS			Rating	END PLATES/PARTITIONS		Type
03835600	Standard	EW35		02113600	End Plate (for SAKR)	AP
10612000	W Series Standard	WEW35/2		02971000	Partition (for TS32 only)	TW
10590000	W Series Large	WEW35/1		EXTERNAL COMBS		
9540000000	Spring Clip Quickfix	ZEW35		04827000	2 way comb – insulated	QB2
TS32 END STOPS				04828000	3 way comb – insulated	QB3
02061600	Standard	EWK1		04829000	4 way comb – insulated	QB4
01993600	W Series Standard	EWK2		01340000	25 way comb – uninsulated	QB25
10676000	W Series Large	WEW32/1				

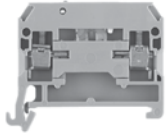
DKT4 (2 LEVEL) STANDARD LEVER TYPE TS35 //

Part number	Conductor Size	Thickness	Rating	Type
TS35 Rail Mount				
06874600	4mm²	6mm	400V 10A	DKT4/35
WITH TEST SOCKET SCREWS				
03279600	4mm²	6mm	400V 10A	DKT4/35

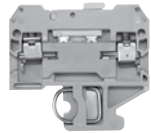
NOTE: W Series Versions now available.

ACCESSORIES //

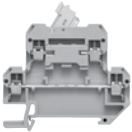
END PLATES/PARTITION			Type	50 WAY INSULATED COMBS	
06875600	End Plate (for DKT4 & DKT4/35)	AP		complete with Red, Blue or Black insulation	
06070000	Partition (for TS32 only)	TW		16332800	Type VQB1.5/50BL – Blue
EXTERNAL COMBS				16332900	Type VQB1.5/50RT – Red
04827000	2 way comb - insulated	QB2		1635120000	Type VQB1.5/50SW – Black
04828000	3 way comb - insulated	QB3		MISCELLANEOUS	
04829000	4 way comb - insulated	QB4		01804000	Test plug – PS2.3 type
05264000	75 way bare comb	QB75		9008450000	Screwdriver (for socket screws) – SDIZ type
05267000	Insulation strip	INSPROF			



SAKR/35



SAKR



DKT4/35



QB4

EARTH & MICRO FEED-THROUGH TERMINALS //

WPE & (WPE & WDK)

WDK (2 LEVEL) – EK & TS15 AKZ MICRO



TS35 WPE EARTH TERMINALS //

Part number	Conductor Size	Thickness	Type
10100000	2.5mm²	5mm	WPE2.5
10101000	4.0mm²	6mm	WPE4
10102000	6.0mm²	8mm	WPE6
10103000	10.0mm²	10mm	WPE10
10104000	16.0mm²	12mm	WPE16
10105000	35.0mm²	16mm	WPE35
95122000	70.0mm²	20.5mm	WPE70N
10373000	95.0mm²	27mm	WPE70/95

SPECIAL WDK EARTH TERMINALS

2 LEVEL EARTH WITH COMMON LINK

10363000	2.5mm²	5mm	WDK2.5PE
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EK TYPE EARTH TERMINALS

STANDARD EK TYPE TS35

06610600	2.5mm²	6mm	EK2.5/35
06611600	4.0mm²	6.5mm	EK4/35
06612600	6.0mm²	8mm	EK6/35
06613600	10.0mm²	10mm	EK10/35
01901600	16.0mm²	12mm	EK16/35
06614600	35.0mm²	16mm	EK35/35

STANDARD EK TYPE TS32

04743600	2.5mm²	6mm	EK2.5N
03545600	4.0mm²	6.5mm	EK4
03546600	10.0mm²	10mm	EK10
03746600	18.0mm²	18mm	EK16
03547600	35.0mm²	35mm	EK35

TS15 MICRO TERMINAL EARTH AKE (also listed in TS15 section)

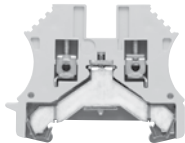
13033600	2.5mm²	5mm	AKE2.5
03802600	4.0mm²	7mm	AKE4

MICRO FEED-THROUGH AKZ //

Part number	Conductor Size/Description	Rating	Thickness	Type	Colour
03404600	1.5mm²	250V 18A	5mm	AKZ1.5	Beige
06971600	2.5mm²	250V 27A	5mm	AKZ2.5	Beige
02943600	4.0mm²	440V 36A	6mm	AKZ4	Beige
02943800	4.0mm²	440V 36A	6mm	AKZ4	Blue

ACCESSORIES //

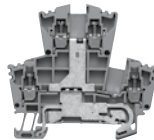
Part number	Description	Type
END STOP TS15 – Beige		
03828600		EW15
END PLATES/PARTITIONS – Beige		
03405600	End Plate for AKZ1.5	AP
06973600	End Plate for AKZ2.5	AP
02944600	End Plate for AKZ4	AP
03482600	Partition for AKZ4	TW
CROSS CONNECTS COMPLETE FOR AKZ1.5 & AKZ2.5 – Beige		
03682000	2 way	Q2
03684000	4 way	Q4
03685000	10 way	Q10
FOR AKZ4		
03364000	2 way	Q2
03365000	3 way	Q3
03686000	10 way	Q10



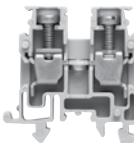
WPE2.5



WPE35



WDK2.5PE



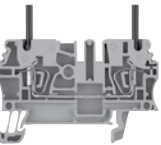
AKZ2.5



EW15



Ideal for vibration prone areas



ZDU 2.5



ZDU 2.5/3 AN



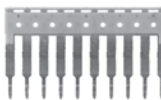
ZDU 2.5/4 AN



ZDU 6/3 AN



ZQV 2.5/2



ZQV 2.5/10

SINGLE LEVEL FEED-THROUGH – STANDARD STYLE //

Part number	Conductor Size	Description	Rating	Thickness	Type
16085100	2.5mm ²	1 In/1 Out	800V 24A	5mm	ZDU 2.5
1608540000	2.5mm ²	2 In/1 Out	800V 24A	5mm	ZDU 2.5/3 AN
1608570000	2.5mm ²	2 In/2 Out	800V 24A	5mm	ZDU 2.5/4 AN
16320500	4.0mm ²	1 In/1 Out	800V 32A	6mm	ZDU 4
7904180000	4.0mm ²	2 In/1 Out	800V 32A	6mm	ZDU 4/3 AN
16086200	6.0mm ²	1 In/1 Out	800V 41A	8mm	ZDU 6
7907410000	6.0mm ²	2 In/1 Out	800V 41A	8mm	ZDU 6/3 AN
1746750000	10.0mm ²	1 In/1 Out	800V 57A	10mm	ZDU 10
1745230000	16.0mm ²	1 In/1 Out	800V 76A	12mm	ZDU 16
1739620000	35.0mm ²	1 In/1 Out	800V 125A	16mm	ZDU 35

Coloured versions available contact CSL

FEED-THROUGH TERMINAL

1745350000	16mm ²	1 In/1 Out	500V 76A	15mm	ZEI16
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For distribution purposes to other Z Series via cross connects

TS35 END STOP

9540000000	Spring Clip Quickfix	ZEW/35
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ACCESSORIES //

Part number	Description	Type	Part number	Description	Type
END PLATES For			PARTITIONS For		
NOTE: All Z Series partitions are coloured orange for visual segregation					
16087400	ZDU 2.5	ZAP/TW1	1608760000	ZDU 2.5	ZAP/TW1OR
1608770000	ZDU 2.5/3 AN	ZAP/TW2	1608790000	ZDU 2.5/3 AN	ZAP/TW2OR
16088000	ZDU 2.5/4 AN	ZAP/TW3	1608820000	ZDU 2.5/4 AN	ZAP/TW3OR
16320900	ZDU 4	ZAP/TW4	1632110000	ZDU 4	ZAP/TW4OR
7904100000	ZDU 4/3 AN	ZAP/TW4/3 AN	7904120000	ZDU 4/3 AN	ZAP/TW4/3ANOR
16088300	ZDU 6	ZAP/TW5	1608850000	ZDU 6	ZAP/TW5/OR
1748660000	ZDU 10	ZAP/TW / ZDU10	1748670000	ZDU 10	ZAP/TW/ZDU10

CROSS CONNECTS

FOR ZDU 2.5					
16088600	2 way	ZQV 2.5/2	16089400	10 way	ZQV 2.5/10
16088700	3 way	ZQV 2.5/3	1908960000	20 way	ZQV 2.5/20
16088800	4 way	ZQV 2.5/4	1697540000	50 way	ZQV 2.5/50

FOR ZDU 4					
16089500	2 way	ZQV 4/2	16089900	6 way	ZQV 4/6
16089600	3 way	ZQV 4/3	16090100	8 way	ZQV 4/8
16089700	4 way	ZQV 4/4	16090300	10 way	ZQV 4/10
16089800	5 way	ZQV 4/5			

FOR ZDU 6					
16278500	2 way	ZQV 6/2	1908990000	24 way	ZQV 6/24
16278600	3 way	ZQV 6/3	1733640000	32 way	ZQV 6/32
16278700	4 way	ZQV 6/4			

FOR ZDU 10					
1739680000	2 way	ZQV 10/2			

FOR ZDU 16					
1739690000	2 way	ZQV 16/2			

FOR ZDU 35					
1739700000	2 way	ZQV 35/2			



Z SERIES EARTH – STANDARD STYLE //

Part number	Conductor Size	Description	Thickness	Type
16086400	2.5mm ²	1 In/1 Out	5mm	ZPE 2.5
1608650000	2.5mm ²	2 In/1 Out	5mm	ZPE 2.5/3 AN
1608660000	2.5mm ²	2 In/2 Out	5mm	ZPE 2.5/4 AN
16320800	4.0mm ²	1 In/1 Out	6mm	ZPE 4
7904170000	4.0mm ²	2 In/1 Out	6mm	ZPE 4/3 AN
7904280000	4.0mm ²	2 In/2 Out	6mm	ZPE 4/4 AN
16086700	6.0mm ²	1 In/1 Out	8mm	ZPE 6
1746770000	10.0mm ²	1 In/1 Out	10mm	ZPE 10
1745250000	16.0mm ²	1 In/1 Out	12mm	ZPE 16

CROSS CONNECTS

Refer to previous page for ZDU cross connects

Z SERIES 2, 3 & 4 LEVEL FEED-THROUGH //

Part number	Rating	Type	Part number	Type
• 5mm thickness		• 2.5mm ² conductor size		
2 LEVEL FEED-THROUGH				END PLATE for ZSK1.5
16743000	400V 17.5A	ZDK 2.5/1.5	16747300	ZAP/TW ZDK2.5

3 LEVEL FEED-THROUGH				END PLATES for ZDLD2.5-2N
178230000	400V 20A	ZDLD2.5-2N	1782340000	ZAP/TW ZDLD2.5-2N
1782320000	Commoned all levels	ZDLD2.5-2VN		

3 LEVEL FEED-THROUGH PLUS EARTH				END PLATE for ZMAK2.5
1768000000	400V 20.0A	ZMAK2.5	1768010000	ZAP ZMAK2.5

4 LEVEL FEED-THROUGH PLUS EARTH				END PLATE for ZVLD2.5
1208920000	250V 24A	ZVLD2.5	1210410000	ZAP ZVLD2.5

Part number	Description	Type
DISCONNECT TERMINAL – 400V 18A rating, 5mm thickness		
1831280000	2.5mm ²	ZTR2.5

CROSS CONNECTS Refer to previous page for ZDU cross connects.

Z SERIES FUSE TERMINALS //

Part number	Description	Type	Part number	Description	Type
CROSS CONNECTS – 8mm thickness			END PLATES		
FUSE TERMINAL (for 20x5 fuses) – 500V 6.3A rating			16088000	Main End Plate	ZAP/TW3
1616400000	2.5mm ²	ZSI2.5	1610840000	Fuse carrier end plate	ZAP THNE/ZSI2.5
LED INDICATION VERSIONS (fuse blown) colour red			END PLATE/FUSE HOLDER		
161640LD	24 Vdc	ZSI2.5	16087400	End Plate for ZTR2.5	ZAPTW2
161640L1	110 Vac	ZSI2.5	7921560000	SIHA fuse holder	SIHA 3/G20
161640LD	110 Vdc	ZSI2.5	NOTE: Disconnect terminal can be turned into a fuse terminal by insertion of SIHA removable fuse type SIHA		
161640L2	240 Vac	ZSI2.5			

CROSS CONNECTS refer to page 28 for ZDU 6-2 cross connects.

Z SERIES ROOF STYLE EARTH TERMINALS //

Part number	Conductor Size	Description	Thickness	Type
1772090000	2.5mm ²	1 In/1 Out	5mm	ZPE 2.5-2
1706090000	2.5mm ²	2 In/1 Out	5mm	ZPE 2.5-2/3 AN
1706100000	2.5mm ²	2 In/2 Out	5mm	ZPE 2.5-2/4 AN
1770380000	4.0mm ²	1 In/1 Out	6mm	ZPE 4-2
1770390000	4.0mm ²	2 In/1 Out	6mm	ZPE 4-2/3 AN
1807090000	4.0mm ²	2 In/2 Out	6mm	ZPE 4-2/4 AN



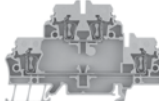
ZPE 2.5



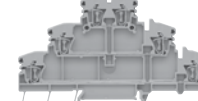
ZPE 2.5/3 AN



ZPE 2.5/4 AN



ZDK 2.5



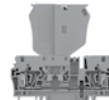
ZDLD2.5-2N



ZMAK2.5



ZTR2.5



ZTR2.5



ZSI2.5



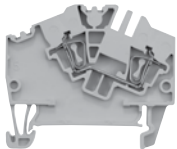
SIHA



ZPE 2.5-2/3 AN



ZPE 2.5-2/4 AN



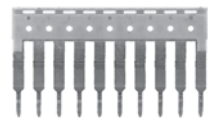
ZDU 2.5-2



ZDU 2.5-2/3 AN



ZDU 2.5-2/4AN



ZQV 2.5/10



ZQV 4/2



ZDK 2.5-2

Z SERIES //

Z SERIES ZDU ROOF STYLE



Z SERIES ROOF STYLE //					
Part number	Conductor Size	Description	Rating	Thickness	Type
1 LEVEL FEED-THROUGH – ROOF STYLE					
1772060000	2.5mm²	1 In/1 Out	800V 24A	5mm	ZDU 2.5-2
1706010000	2.5mm²	2 In/1 Out	800V 24A	5mm	ZDU 2.5-2/3 AN
1706060000	2.5mm²	2 In/2 Out	800V 24A	5mm	ZDU 2.5-2/4 AN
1770370000	4.0mm²	1 In/1 Out	800V 32A	6mm	ZDU 4-2
1770360000	4.0mm²	2 In/2 Out	800V 32A	6mm	ZDU 4-2/3 AN
1806980000	4.0mm²	2 In/2 Out	800V 32A	6mm	ZDU 4-2/4 AN
1771380000	6.0mm²	1 In/1 Out	800V 41A	8mm	ZDU 6-2
1771410000	6.0mm²	2 In/1 Out	800V 41A	8mm	ZDU 6-2/3 AN
FEED-THROUGH TERMINAL*					
1772940000	16.0mm²	Supply terminal	800V 76A	13.8mm	ZEI16-2/1AN

* For distribution purposes = cross connectable. End Plate is integrated

ACCESSORIES //

Part number	Description	Type	Part number	Description	Type
END PLATES	For		END PLATES	For	
1706110000	ZDU 2.5-2	ZAP/TW7	1770400000	ZDU 4-2/3 AN	ZAP/ZDU4-2
1706110000	ZDU 2.5-2/3 AN	ZAP/TW7	1771440000	ZDU 6-2	ZAP/ZDU6-2
1706110000	ZDU 2.5 -2/4 AN	ZAP/TW7	1771440000	ZDU 6-2/3 AN	ZAP/ZDU6-2
1770400000	ZDU 4-2	ZAP/ZDU4-2			
PARTITIONS	For		PARTITIONS	For	
1706130000	ZDU 2.5-2	ZAP/TW7OR	1770890000	ZDU 4-2	ZAP/ZDU4-2OR
1706130000	ZDU 2.5-2/3 AN	ZAP/TW7OR	1770890000	ZDU 4-2/3 AN	ZAP/ZDU4-2OR
1706130000	ZDU 2.5-2/4 AN	ZAP/TW7OR	NOTE: Partitions are orange in colour for visual segregation		
END PLATES – 2 Level					
8670760000	ZAP/TWZDK4-2				

1 LEVEL FEED-THROUGH – ROOF STYLE CROSS CONNECTS					
FOR ZDU 2.5-2					
16088600	2 way	ZQV 2.5/2	16089400	10 way	ZQV 2.5/10
16088700	3 way	ZQV 2.5/3	1908960000	20 way	ZQV 2.5/20
16088800	4 way	ZQV 2.5/4	1697540000	50 way	ZQV 2.5/50
FOR ZDU 4-2					
16089500	2 way	ZQV 4/2	16089900	6 way	ZQV 4/6
16089600	3 way	ZQV 4/3	16090100	8 way	ZQV4/8
16089700	4 way	ZQV 4/4	16090300	10 way	ZQV 4/10
16089800	5 way	ZQV 4/5			
FOR ZDU 6-2					
16278500	2 way	ZQV 6/2	1908990000	24 way	ZQV 6/24
16278600	3 way	ZQV 6/3	1733640000	32 way	ZQV 6/32
16278700	4 way	ZQV 6/4			

2 LEVEL Z ROOF //

Part number	Size	Rating	Thickness	Type
1790990000	2.5mm²	600V 24A	5mm	ZDK 2.5-2
Endplate: ZAP/ZDK2.5-2 Cat No. 1791050000				

NOTE: Cross Connect - refer for ZDU2.5-2 above.

Z SERIES //

ZDU, ZDK (2 LEVEL) & ZPE SLIMLINE

TS15 MICRO ZDUA & ZPEA (EARTH)



Z SERIES SLIMLINE //					
Part number	Conductor Size	Description	Rating	Thickness	Type
1 LEVEL FEED-THROUGH – SLIMLINE					
1775480000	1.5mm²	1 In/1 Out	500V 17.5A	3.5mm	ZDU 1.5
1775530000	1.5mm²	2 In/1 Out	500V 17.5A	3.5mm	ZDU 1.5/3 AN
1775580000	1.5mm²	2 In/2 Out	500V 17.5A	3.5mm	ZDU 1.5/4 AN
2 LEVEL FEED-THROUGH SLIMLINE					
1791100000	1.5mm²		500V 17.5A	3.5mm	ZDK 1.5

ACCESSORIES //

Part number	Description	Type	Part number	Description	Type
TS35 END STOPS			END PLATES	for	
03835600	Standard	EW35	1776030000	ZDU 1.5	ZAP/TW1.5/2
10612000	W Series Standard	WEW35/2	1776060000	ZDU 1.5/3 AN	ZAP/TW1.5/3
10590000	W Series Large	WEW35/1	1776090000	ZDU 1.5/4 AN	ZAP/TW1.5/4
9540000000	Spring Clip Quickfix	ZEW35	1791160000	2 Level feed-through	ZAP/TW/ZDK1.5
PARTITIONS	for		CROSS CONNECTS		
1776110000	ZDU 1.5/4 AN	ZAP/TW1.5/4 OR	FOR ALL 3.5mm WIDE TERMINALS		
NOTE: All Z Series partitions are coloured orange for visual segregation.			1776120000	2 way	ZQV 1.5/2
			1776200000	10 way	ZQV 1.5/10

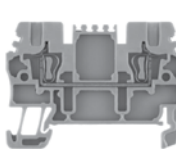
Z SERIES SLIMLINE EARTH //

Part number	Conductor Size	Description	Thickness	Type
17755100000	1.5mm²	1 In/1 Out	3.5mm	ZPE 1.5
17755600000	1.5mm²	2 In/1 Out	3.5mm	ZPE 1.5/3 AN
17756200000	1.5mm²	2 In/2 Out	3.5mm	ZPE 1.5/4 AN

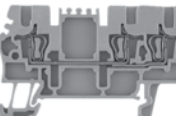
TS15 Z SERIES MICRO TERMINALS //

Part number	Conductor Size	Description	Rating	Thickness	Type
MINIBLOCK SERIES					
17209200	2.5mm²	Beige	800V 24A	5mm	ZDUA 2.5-2
Part number		Conductor Size	Description	Type	Colour
EARTH TERMINALS					
17209500	2.5mm²	5mm Thickness	ZPEA 2.5-2		Green/Yellow
END PLATE for ZDUA2.5-2					
17209600			ZAP/TW ZDUA		

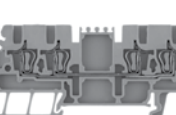
Part number	Description	Type
CROSS CONNECTS – YELLOW		
16938000	2 way	ZQV 2.5N/2
16938100	3 way	ZQV 2.5N/3
16938200	4 way	ZQV 2.5N/4
16938800	10 way	ZQV 2.5N/10
16938900	50 way	ZQV 2.5N/50



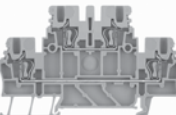
ZDU 1.5



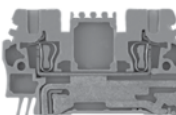
ZDU 1.5/3 AN



ZDU 1.5/4 AN



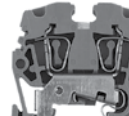
ZDK 1.5



ZPE 1.5



ZDUA 2.5-2



ZPEA 2.5-2



MODULAR DISTRIBUTION ASSEMBLY //

The Modular Distribution Assembly is a convenient way of supplying power to initiators and actuators. An additional basic element is used as a supply element which distributes the power to individual field devices across the cross connected distribution terminals.

INITIATOR SUPPLY

via 1 additional standard basic element

=> n + 1 basic elements

=> n + 1 distribution assembly element for each circuit path

(n= number of initiators)

4-core basic elements are used for an initiator supply with additional PE connection; these can take 3 distribution terminals

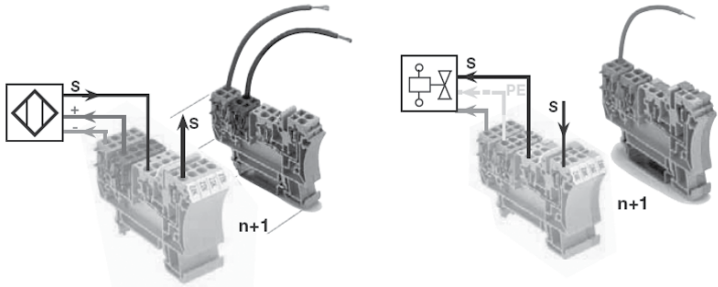
ACTUATOR SUPPLY

via 1 additional standard basic element

=> n + 1 basic elements

=> n + 1 distribution assembly element for each circuit path

(n= number of initiators)



MODULAR DISTRIBUTION STRIP SYSTEM //

Part number	Conductor Size	Description	Rating	Thickness	Type	Colour
16519800	2.5mm ²	Base terminal	300V	5.1mm	ZIA 1.5/3L -1S	Beige
16503700	2.5mm ²	Insert	300V	5.1mm	ZVL 1.5BR	Brown
16503600	2.5mm ²	Insert	300V	5.1mm	ZVL 1.5BL	Blue
16519700	2.5mm ²	Insert	300V	5.1mm	ZVL 1.5/PE GN/GE BED	Green/Yellow

MODULAR DISTRIBUTION STRIP SYSTEM //

Part number	Description	Type
-------------	-------------	------

ACCESSORIES //

TS35 END STOPS

03835600	Standard	EW35
10612000	W Series Standard	WEW35/2
10590000	W Series Large	WEW35/1
9540000000	Spring Clip Quickfix	ZEW35

END PLATES

16495400		ZAP/TW-Z10 A 1.5/3L
----------	--	---------------------

BLANKS – MARKER HOLDER

1676620000*	Without spigot for end of row	BZT-ZVL 1.5/0ZA
1676610000	With spigot for joining	BZT-ZVL 1.5

NOTE: *This is required at the end of a row of blanks

THERMOCOUPLE TERMINALS //

Part number	Ordering data/Item #	Version/Type	Description
1024100000	For thermocouples	Type K	NiCr - Ni
10243000	(DIN 43710)	Type J	Fe - CuNi
1041500000		Type N	NiSi - nicrosil

NOTE: These are double width terminals

END PLATE

10500000	WAP 2.5/10	
----------	------------	--

CT TERMINAL – COMPLETE SET - FOR 3 PHASE //

7940008504	Includes: 7 terminals 2 way shorting slidelink and combing bar. OR order components individually and make up your own combination.
------------	---

CT/VT TEST DISCONNECT TERMINALS //

10169000	WTL 6/1/STB	Slidelink disconnect terminal
10171000	WTD 6/1	Feed-through terminal
10684000	WAP WTL	End plate
03073000	QVS2	2 way shorting slidelink
01699000	StB14	Test socket bare
03890000*	StB35	Test socket insulated yellow
03180000*	VH19	Sleeve
03347000*	BS25	Screw

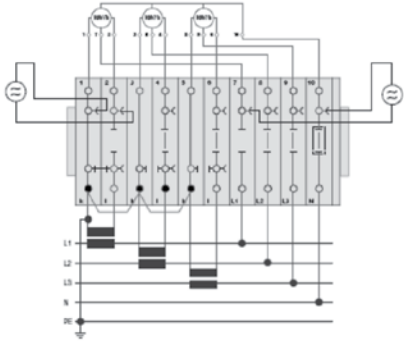
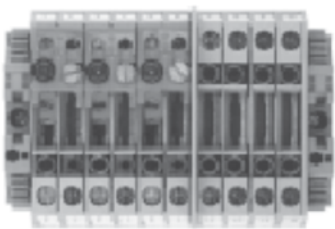
NOTE: * used in conjunction with 2 way link QVS2

EXTERNAL COMB FOR CT EARTHING

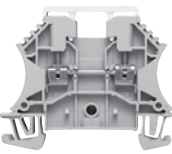
Use QB58 58 Way comb cut to suit

05453000	QB58	Bare external comb (58 Way)
05460000	INSPROF	Insulation strip for QB58

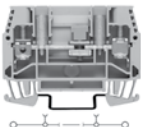
This is a typical layout suggestion



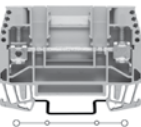
Meter test set with WTL 6/1
Combination of disconnect test terminal blocks and feed-through terminals.



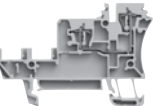
Type K



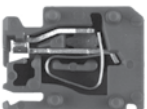
WTL 6/1/STB



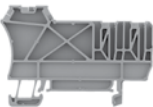
WTD 6/1



ZIA 1.5/3L-1S



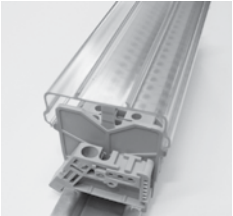
ZVL 1.5BR



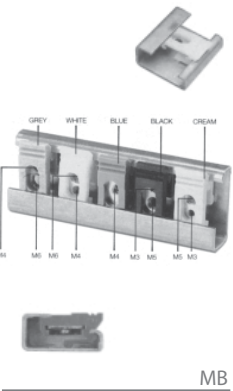
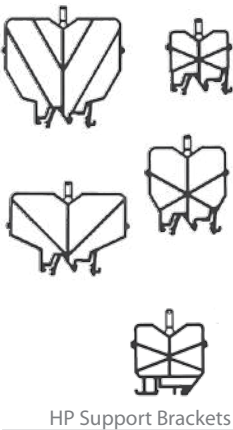
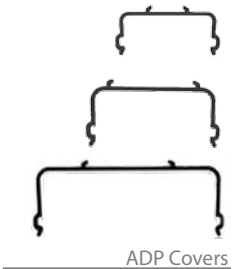
ZAP/TW-Z10 A 1.5/3L



Blanks - Marker Holder



Transparent Covers Example



TRANSPARENT TERMINAL COVERS //

ADP covers ensure external accessories, such as cross connections, are touch-proof and protect the assembly from oil splashes and water drips. ADP covers may be utilised for additional group marking. The ADP cover clips firmly into place over the end supports HP fitted to each end of the terminal assembly. To prevent unauthorised access to the terminals a seal can be fitted to the extended tabs on the HP as illustrated. A 6mm hole should be drilled through the cover to achieve this seal facility.

Part number	Type	Options
04852000	ADP 1	Used with HP 1: SAKD 2.5N, SAK 2.5/35, SAL 2.5 and EKN 2.5 Used with HP 8: AKZ 4
04853000	ADP 2	Used with HP 2: SAK 4, SAK 10, EK 6/35, SAK 4/35, SAK 10/35, EK 10, SAK 6N, EK2.5/35, EK 10/35, SAK6/35, EK 4, SAKR, RSF 1, EK 4/35, SAKR-D, RSF 3, SAKC 4, WDU 2.5-10 and WDK
04854000	ADP 3	Used with HP 3: SAK 16, EK 16, SAKS 2, SAK 16/35, EK 35, SAKS 2/35, SAK 35 N, SAKS 4, SAK 35 N/35, SAKS 4/35, SAK 70, SAKC 10, SAKS 5, SAKH, RSF 2, SAKS 5/35, WDU 16-35 and WPE 16-35 ADP is supplied in 1 metre lengths.

SUPPORT BRACKETS FOR ADP TRANSPARENT TERMINAL COVERS	
04855600	HP 1 (54H x 41W x 2T)
04856600	HP 2 (70.2H x 54W x 3T)
04857600	HP 3 (86H x 82W x 3T)
04858600	HP 4 (66.5H x 82W x 3T)
02583600	HP 8 (50H x 41W x 2T)

NOTE: HP 1-4 has a combi-foot suitable for both TS32 and TS35 Mounting Rail. HP 8 is for TS15 Rail. ADP is supplied in 1 metre lengths.

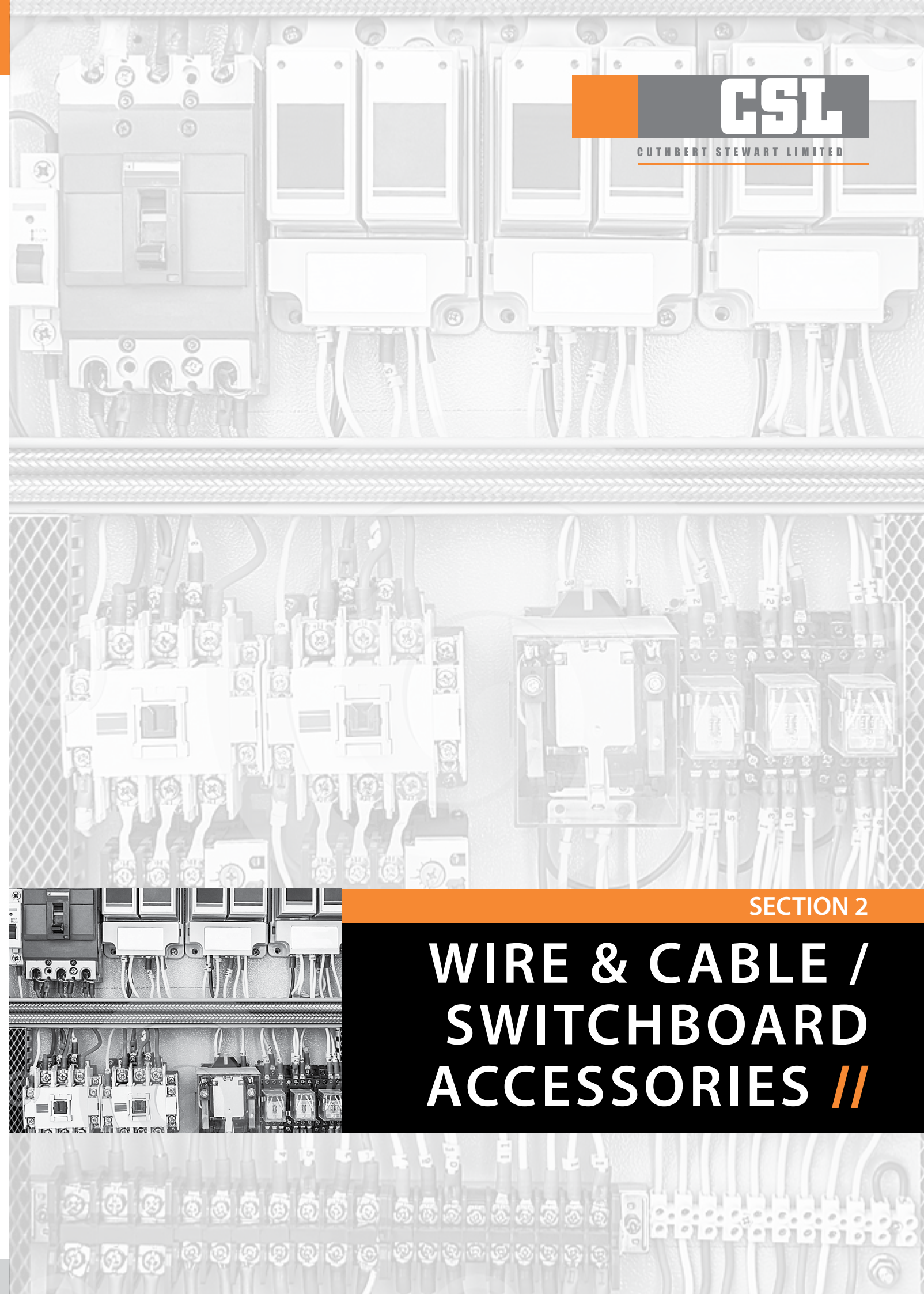
MOUNTING BRACKETS //

Part number	Type
For TS32 rail	
When in position and fixed to the assembly rail, the mounting bracket sits at the same level as the large flange of the rail to give a stable, flat base for equipment marking.	
04807600	MB M4 tapped hole
04808600	MB M5 and M3
04809600	MB M3 and M5
04810600	MB M4 and M6
03349600	MB M6 and M4
for TS35 rail	
Mounting brackets suitable for mounting electrical/electronic components onto TS35 rail. FM4 fits all Top Hat metal mounting rails, component fixing by means of tapped hole. Mounting foot for TS35/7.5, supplied with or without fixing holes.	
06879000	FM 4
01640000	TSTW 35

Screw Terminal				
DIN Rail Mount				
	Rating	Conductor size		Part Number
	660V / 240A	100mm ² (4/0 AWG)	3 Pole	BN200BW3
	660V / 240A	100mm ² (4/0 AWG)	4 Pole	BN200BW4
	660V / 310A	150mm ² (300 MCM)	3 Pole	BN300BW3
	660V / 310A	150mm ² (300 MCM)	4 Pole	BN300BW4
	660V / 370A	200mm ² (400 MCM)	3 Pole	BN400BW3
	660V / 370A	200mm ² (400 MCM)	4 Pole	BN400BW4
Surface Mount				
	660V / 240A	100mm ² (4/0 AWG)	3 Pole	BN200BW3K
	660V / 240A	100mm ² (4/0 AWG)	4 Pole	BN200BW4K
	660V / 310A	150mm ² (300 MCM)	3 Pole	BN300BW3K
	660V / 310A	150mm ² (300 MCM)	4 Pole	BN300BW4K
	660V / 370A	200mm ² (400 MCM)	3 Pole	BN400BW3K
	660V / 370A	200mm ² (400 MCM)	4 Pole	BN400BW4K
	660V / 430A	240mm ² (500 MCM)	3 Pole	BN500BW3K
	660V / 430A	240mm ² (500 MCM)	4 Pole	BN500BW4K
Stud Terminal				
Surface Mount				
	Rating	Conductor size		Part Number
	660V / 240A	100mm ² (4/0 AWG)	3 Pole	BN200NW3K
	660V / 240A	100mm ² (4/0 AWG)	4 Pole	BN200NW4K
	660V / 310A	150mm ² (300 MCM)	3 Pole	BN300NW3K
	660V / 310A	150mm ² (300 MCM)	4 Pole	BN300NW4K
	660V / 370A	200mm ² (400 MCM)	3 Pole	BN400NW3K
	660V / 370A	200mm ² (400 MCM)	4 Pole	BN400NW4K
	660V / 430A	240mm ² (500 MCM)	3 Pole	BN500NW3K
	660V / 430A	240mm ² (500 MCM)	4 Pole	BN500NW4K
	660V / 520A	300mm ² (600 MCM)	3 Pole	BN600NW3K
	660V / 520A	300mm ² (600 MCM)	4 Pole	BN600NW4K
	Note: Rating and Conductor sizes are based on EN60947-7-1			

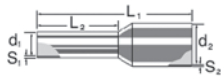
Dust Cover (1m)		
	Applicable Terminal Blocks	Part Number
	BN200BW*K, BN200NW*K	BAC820
	BN300BW*K, BN300NW*K	BNC910
	BN400BW*K, BN400NW*K	BNC1000
	BN500BW*K, BN500NW*K, BN600NW*K	BNC930

Lined area for notes.



SECTION 2

WIRE & CABLE / SWITCHBOARD ACCESSORIES //



INSULATED FERRULES //

- Polypropylene conical cable entry
- Heat resistant to 105°C
- For conductors 0.25-50mm²
- Material: tin-plated copper
- Dimensional tolerances to DIN 46228 part 4
- Also available in strips of 50 and rolls of 5000

Part number	Insulated Ferrules in Bags of 100	Wire Size (mm²)	L1	L2	D1	D2	Stripping Length
9026050000	H0.25/10 Ferrules Light Blue	0.25mm²	10.0	6.0	0.8	1.8	8.0
9021220000	H0.25/12T GE SV Yellow	0.25mm²	12.0	8.0	0.8	1.8	10.0
9026030000	H0.34/10 Ferrules Turquoise	0.34mm²	10.0	6.0	0.8	2.0	8.0
9026060000	H0.5/14 Ferrules Orange	0.5mm²	14.0	8.0	1.0	2.6	10.0
9026070000	H0.75/14 Ferrules White	0.75mm²	14.0	8.0	1.2	2.8	10.0
9021040000	H0.75/14T Ferrules Light Blue	0.75mm²	14.0	8.0	1.2	2.8	8.0
9026080000	H1.0/14 Ferrules Yellow	1.0mm²	14.0	8.0	1.4	2.0	10.0
9025720000	H1.5/14S Ferrules Red	1.5mm²	14.0	8.0	1.7	3.9	10.0
0565600000	H1.5/24 Ferrules Red	1.5mm²	24.0	18.0	1.7	3.5	20.0
9021070000	H2.5/14T Ferrules (CH) Grey	2.5mm²	14.0	8.0	2.2	4.2	10.0
9026100000	H2.5/14 Ferrules Blue	2.5mm²	14.0	8.0	2.2	4.2	10.0
9026010000	H4.0/16 Ferrules Grey (bag of 50 only)	4.0mm²	17.0	10.0	2.8	4.8	12.0
9019210000	H4.0/26D Ferrules Grey	4.0mm²	26.0	18.0	2.8	4.8	20.0
0533500000	H6.0/20 Ferrules Black	6.0mm²	20.0	12.0	3.5	6.3	14.0
0565700000	H6.0/26 Ferrules Black	6.0mm²	26.0	18.0	3.5	6.3	20.0
0534200000	H10/22 Ferrules Ivory	10.0mm²	22.0	12.0	4.5	7.6	15.0
0565800000	H10.0/28 Ferrules Ivory	10.0mm²	28.0	18.0	4.5	7.6	21.0
0565900000	H16.0/22 Ferrules Green	16.0mm²	24.0	12.0	5.8	8.8	15.0
0566000000	H16.0/28 Ferrules Green	16.0mm²	28.0	18.0	5.8	8.8	21.0
Bags of 50 only							
0317000000	H25.0/30 Ferrules Brown	25.0mm²	36.0	22.0	7.3	11.2	18.0
0317200000	H35.0/30 Ferrules Beige	35.0mm²	30.0	16.0	8.3	12.7	19.0
0444200000	H50.0/36 Ferrules Olive	50.0mm²	36.0	20.0	10.3	15.0	26.0

Part number	Insulated Ferrules Din Colour – Bag sizes below	Wire Size (mm²)	L1	L2	D1	D2	Stripping Length
9019000000	H0.5/12D Ferrules White (bag of 500)	0.5mm²	12.0	6.0	1.0	2.6	8.0
9019040000	H0.75/14D Ferrules Grey (bag of 500)	0.75mm²	14.0	8.0	1.2	2.8	10.0
9019420000	H1.0/14D Ferrules Red (bag of 100)	1.0mm²	14.0	8.0	1.4	3.0	10.0
9019430000	H1.5/14D Ferrules Black (bag of 100)	1.5mm²	14.0	8.0	1.7	3.5	10.0
9019170000	H2.5/18D Ferrules Blue (bag of 50 only)	2.5mm²	18.0	12.0	2.2	4.2	14.0
9019180000	H2.5/25 Ferrules Blue (bag of 100)	2.5mm²	24.0	18.0	2.2	4.2	20.0

INSULATED FERRULES //

Strips of 50 (Refer to page 107 for the 9020000000 Stripax Plus Tool)

Part number	Insulated Ferrules – Strips of 50	Wire Size (mm²)	L1	L2	D1	D2	Stripping Length
9004270000	H0.5/14 Strip Ferrules Orange	0.5mm²	14.0	8.0	1.0	2.6	10.0
9004290000	H0.75/14 Strip Ferrules White	0.75mm²	14.0	8.0	1.2	2.8	10.0
9004320000	H1.0/14 Strip Ferrules Yellow	1.0mm²	14.0	8.0	1.4	3.0	10.0
9004340000	H1.5/14 Strip Ferrules Red	1.5mm²	14.0	8.0	1.7	3.2	10.0
9004360000	H2.5/14 Strip Ferrules Blue	2.5mm²	14.0	8.0	2.2	4.0	11.0

Strips of 5000 (Refer to page 107 for the 9020000000 Stripax Plus Tool)

Part number	Reel of 5000 (Note 2.5mm² = 3000)	Wire Size (mm²)	L1	L2	D1	D2	Stripping Length
9005810000	H0.5/14 Orange Reel/5000	0.5mm²	14.0	8.0	1.0	2.6	10.0
9005820000	H0.75/14 White Reel/5000	0.75mm²	14.0	8.0	1.2	2.8	10.0
9005830000	H1.0/14 Yellow Reel/5000	1.0mm²	14.0	8.0	1.4	3.0	11.0
9005840000	H1.5/14 Red Reel/5000	1.5mm²	14.0	8.0	1.7	3.2	10.0
9005850000	H2.5/14 Blue Reel/3000	2.5mm²	14.0	8.0	2.2	4.0	11.0

INSULATED TWIN FERRULES //

- Polypropylene conical cable entry
- Heat resistant to 105°C
- For conductors 0.5-10mm²
- Material: tin-plated copper
- Dimensional tolerances to DIN 46228 part 4

Part number	Twin Ferrules - Bags of 100	Wire Size (mm²)	L1	L2	D1	S1	S2	Stripping Length
9004440000	HD.5/15 Orange Twin Ferrules	0.5mm²	15.0	8.0	1.4	0.15	0.3	11.0
9018510000	Twin H0.75x2 Ferrules White	0.75mm²	15.0	8.0	1.7	0.15	0.3	11.0
9018530000	Twin H1.0x2 Ferrules Yellow	1.0mm²	15.0	8.0	2.0	0.15	0.3	12.0
9004410000	Twin H1.5x2 Ferrules Red	1.5mm²	16.0	8.2	2.2	0.15	0.3	13.0
9004430000	Twin H2.5x2 Ferrules Blue	2.5mm²	19.0	10.0	2.8	0.15	0.4	15.0
9004730000	Twin H4.0x2 Ferrules Grey	4.0mm²	22.0	12.0	3.5	0.2	0.5	15.0
9037320000	Twin H6.0x2 Ferrules Black	6.0mm²	25.0	12.0	4.5	0.2	0.5	20.0
9037340000	Twin H10.0x2 Ferrules Ivory	10.0mm²	24.0	12.0	5.8	0.2	0.5	17.0

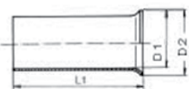
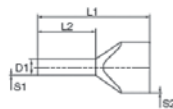
NON-INSULATED FERRULES //

- For conductors 0.5-35mm²
- Material: tin-plated copper
- Dimensional tolerances to DIN 46228 part 1

Part number	Non-Insulated Ferrules – Bags of 100	Wire Size (mm²)	L1	D1	D2	Stripping Length
0282600000	H0.5/6	0.5mm²	6.0	1.0	2.1	6.0
0282700000	H0.75/6	0.75mm²	6.0	1.2	2.3	6.0
0542500000	H0.75/10	0.75mm²	10.0	1.2	2.3	10.0
0372600000	H1.0/6	1.0mm²	6.0	1.4	2.5	6.0
0282800000	H1.0/10	1.0mm²	10.0	1.4	2.5	10.0
0186500000	H1.5/10	1.5mm²	10.0	1.7	2.8	10.0
0186100000	H2.5/12	2.5mm²	12.0	2.2	3.4	12.0
0244100000	H4.0/12	4.0mm²	12.0	2.8	4.0	12.0
0191900000	H6.0/12	6.0mm²	12.0	3.5	4.7	12.0
0124700000	H6.0/50 (bag of 500)	6.0mm²	15.0	3.5	4.7	15.0
0282900000	H10.0/12	10.0mm²	12.0	4.5	5.8	12.0
0375200000	H16.0/18	16.0mm²	18.0	5.8	7.5	18.0
0375300000	H25.0/18	25.0mm²	18.0	7.3	9.5	18.0
0368900000	H35.0/18	35.0mm²	18.0	8.3	11.0	18.0



Stripax Plus





DIN RAIL //		
Part number	Description	Length
TS35 DIN Rail (Top Hat)		
P038340A751	TS35 Rail Aluminium Plain	1x1m
P038340A752	TS35 Rail Aluminium Plain	1x2m
P038340A1	TS35 Deep Rail Aluminium Plain	1x1m
P038340A2	TS35 Deep Rail Aluminium Plain	1x2m
P038340ALC1	TS35 Channel Nut Rail Aluminium Plain	1x1m
P038340ALC2	TS35 Channel Nut Rail Aluminium Plain	1x2m
P038340ALS1	TS35 Aluminium Slotted	1x1m
P038340ALS2	TS35 Aluminium Slotted	1x2m
P038340P1	TS35 Rail Steel Plain	1x1m
P038340P2	TS35 Rail Steel Plain	1x2m
P049800P2	TS35 Rail Steel Plain (Deep)	1x2m
P038340S1	TS35F Rail Steel Slotted	1x1m
P038340S2	TS35F Rail Steel Slotted	1x2m
1747350000	TS35 Stainless Steel Plain	1x2m
0236500000	TS35X15 Rail Steel Slotted (Deep) Also avail. in 1m lengths	1x2m
TS15 Micro Terminal DIN Rail		
P011750S1	TS15F Rail Steel Slotted	1x1m
P011750S2	TS15F Rail Steel Slotted	1x2m
Also available		
01640000	TSTW Stand Off Brackets	
TS32 C Rail		
P012280A1	TS32 Rail Aluminium Plain	1x1m
P012280A2	TS32 Rail Aluminium Plain	1x2m
P012280P1	TS32 Rail Steel Plain	1x1m
P012280P2	TS32 Rail Steel Plain	1x2m
P012280S1	TS32F Rail Steel Slotted	1x1m
P012280S2	TS32F Rail Steel Slotted	1x2m



TS35 slotted



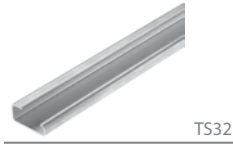
TS15



TS15 slotted



TSTW brackets



TS32



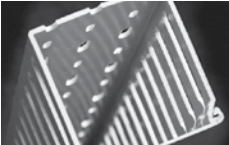
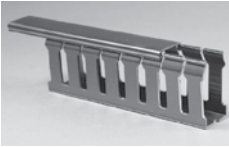
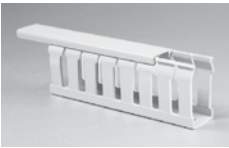
WIDE OPEN SLOT //

Features	Applications
• Self-extinguishing PVC • Flammability UL94 V-0 rated material • Temperature range (-15°C to 60°C) • Base slots to DIN 43659 • Lid supplied	• Wide fingers give additional cable support • Terminated wires can be re-routed easily • 20mm slot pitch • 8mm slot width

* Nominal inside dimensions

Part number	Width (mm)*	Height (mm)*	Length (M)	Colour	Lengths per box lot
10450022	25	37.5	2	Grey	12
10450023	25	50	2	Grey	12
10450024	25	75	2	Grey	8
10450025*	25	100	2	Grey	8
10450032	37.5	37.5	2	Grey	12
10450034	37.5	75	2	Grey	8
10450035*	37.5	100	2	Grey	8
10450051	50	25	2	Grey	12
10450052	50	37.5	2	Grey	8
10450053	50	50	2	Grey	8
10450054	50	75	2	Grey	8
10450055	50	100	2	Grey	4
10450072	75	37.5	2	Grey	8
10450073	75	50	2	Grey	8
10450074	75	75	2	Grey	8
10450075	75	100	2	Grey	4
10450103	100	50	2	Grey	4
10450104	100	75	2	Grey	4
10450105	100	100	2	Grey	4
10450124	125	75	2	Grey	4
09810	25	37.5	2	Black	12
09130	25	50	2	Black	12
09140	25	75	2	Black	8
09160	50	50	2	Black	8
09170	50	75	2	Black	8
09190	75	75	2	Black	8
09410*	125	75	2	Black	4
09840*	37.5	37.5	2	Black	12
09940*	75	50	2	Black	8
09990	100	75	2	Black	4
09136*	25	50	2	Blue	12
09146*	25	75	2	Blue	8
09166*	50	50	2	Blue	8
09176	50	75	2	Blue	8
09196	75	75	2	Blue	8

*Available while stocks last and then indent only.



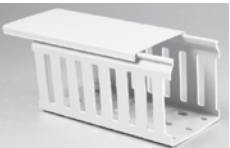
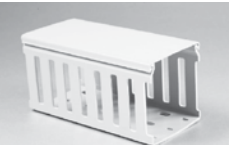
WIDE CLOSED SLOT //

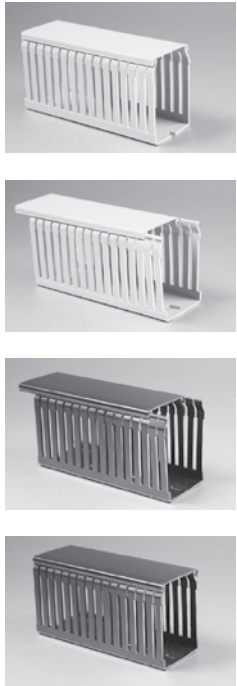
Features	Applications
• Self-extinguishing PVC • Flammability UL94 V-0 rated material • Temperature range (-15°C to 60°C) • Base slots to DIN 43659 • Lid supplied	• Excellent cable retention • Enhanced protection for installers • 20mm slot pitch • 8mm slot width

* Nominal inside dimensions

Part number	Width (mm)*	Height (mm)*	Length (M)	Colour	Lengths per box lot
10460011*	15	15	2	Grey	24
10460021	25	20	2	Grey	12
10460022	25	37.5	2	Grey	12
10460023	25	50	2	Grey	12
10460024	25	75	2	Grey	8
10460051*	50	25	2	Grey	12
10460053	50	50	2	Grey	8
10460054	50	75	2	Grey	8
10460073	75	50	2	Grey	8
10460074	75	75	2	Grey	8
10460104	100	75	2	Grey	4
10460106	100	125	2	Grey	4
10460124	125	75	2	Grey	4
09000*	15	15	2	Black	24
09010	25	20	2	Black	12
09510*	25	37.5	2	Black	12
09030	25	50	2	Black	12
09040*	25	75	2	Black	8
09550*	37.5	50	2	Black	8
09060	50	50	2	Black	8
09070	50	75	2	Black	8
09640*	75	50	2	Black	8
09090	75	75	2	Black	8
09380*	50	25	2	Black	12
09710*	100	125	2	Black	4
09400*	125	75	2	Black	4

*Available while stocks last and then indent only.





NARROW OPEN SLOT //					
Features			Applications		
• Self-extinguishing PVC • Flammability UL94 V-0 rated material • Temperature range (-15°C to 60°C) • Base slots to DIN 43659 • Lid supplied			• Ideal for use with slimmer terminal blocks where more access is required • Improves appearance of panels with cables out in best position • 10mm slot pitch • 4mm slot width		
* Nominal inside dimensions					
Part number	Width (mm)*	Height (mm)*	Length (M)	Colour	Lengths per box lot
10470018	19	50	2	Grey	12
10470022	25	37.5	2	Grey	12
10470023	25	50	2	Grey	12
10470024	25	75	2	Grey	8
10470032	37.5	37.5	2	Grey	12
10470033	37.5	50	2	Grey	8
10470034	37.5	75	2	Grey	8
10470052	50	37.5	2	Grey	8
10470053	50	50	2	Grey	8
10470054	50	75	2	Grey	8
10470072*	75	37.5	2	Grey	8
10470073	75	50	2	Grey	8
10470074	75	75	2	Grey	8
10470103	100	50	2	Grey	4
10470104	100	75	2	Grey	4
10490023	25	50	2	Black	12
10490024	25	75	2	Black	8
10490053	50	50	2	Black	8
10490054	50	75	2	Black	8
10490074*	75	75	2	Black	8
10490103*	100	50	2	Black	4
10490104*	100	75	2	Black	4

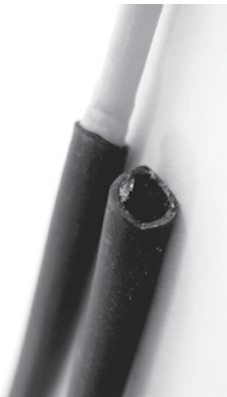
*Available while stocks last and then indent only.

PGST - FLEXIBLE, THIN WALL, PREMIUM HEAT SHRINK TUBING //	
ORDER INFORMATION	
Standard Colours	Black (0), Red (2), Yellow (4), Green (5), Blue (6), White (9), Clear (X)
Standard Packaging	1.22M/piece (4FT = STK), Spools on request (SP)
Size Selection	Size from 3/64" – 4" (1.2 -101mm)
Ordering Description	PGST-size-colour-standard packaging i.e. PGST-3/64-0-STK

Item/Part number	Inside Diameter (mm)		Wall thickness after recovery (mm)
	Minimum as supplied	Maximum after recovery	
PGST-3/64	1.2	0.6	0.41±0.08
PGST-1/16	1.6	0.8	0.43±0.08
PGST-3/32	2.4	1.2	0.51±0.08
PGST-1/8	3.2	1.6	0.51±0.08
PGST-3/16	4.8	2.4	0.51±0.08
PGST-1/4	6.4	3.2	0.64±0.08
PGST-3/8	9.5	4.75	0.64±0.08
PGST-1/2	12.7	6.4	0.64±0.08
PGST-3/4	19.1	9.53	0.76±0.08
PGST-1	25.4	12.7	0.89±0.13
PGST-1-1/2	38.1	19.1	1.02±0.15
PGST-2	50.8	25.4	1.14±0.18
PGST-3	76.2	38.1	1.27±0.20
PGST- 4	101.6	50.8	1.40±0.23

DWST - ADHESIVE-LINED/DUAL WALL, HEAT SHRINK TUBING //	
ORDER INFORMATION	
Standard Colour	Black (0)
Standard Packaging	1.22M/piece (4FT = STK)
Size Selection	Size from 1/8"–1-1/2" (3.00 -38.1mm)
Ordering Description	DWST-size-colour-standard packaging i.e. DWST-1/4-0-STK

Item/Part number	As Supplied (mm)	After recovery (mm)		
	Minimum Inside Diameter	Maximum Inside Diameter	Total wall	Nominal Adhesive wall
DWST-1/8	3.00	1.00	0.85±0.28	0.35
DWST-3/16	4.80	1.50	1.05±0.28	0.45
DWST-1/4	6.00	2.00	1.10±0.28	0.45
DWST-3/8	9.00	3.00	1.45±0.28	0.45
DWST-1/2	12.0	4.00	1.50±0.38	0.45
DWST-3/4	19.0	6.00	2.00±0.55	0.65
DWST-1	24.0	8.00	2.00±0.55	0.65
DWST-1-1/2	38.1	13.0	2.54±0.55	1.00





HEAVY WALL HEAT SHRINK GT4 //

Item/Part number	Description	Size	Length	Wall thickness
GT4-12X300*	Heavy Wall Heat Shrink Tube, 300mm, 12/3	12-3mm	300mm	2.0mm
GT4-12X1200	Heavy Wall Heat Shrink Tube, 1200mm, 12/3	12-3mm	1200mm	2.0mm
GT4-12X1500	Heavy Wall Heat Shrink Tube, 1500mm, 12/3	12-3mm	1500mm	2.0mm
GT4-20X300*	Heavy Wall Heat Shrink Tube, 300mm, 23/6	23-6mm	300mm	2.2mm
GT4-20X1200	Heavy Wall Heat Shrink Tube, 1200mm, 23/6	23-6mm	1200mm	2.2mm
GT4-20X1500	Heavy Wall Heat Shrink Tube, 1500mm, 23/6	23-6mm	1500mm	2.2mm
GT4-30X300*	Heavy Wall Heat Shrink Tube, 300mm, 34/8	34-8mm	300mm	3.5mm
GT4-30X1200	Heavy Wall Heat Shrink Tube, 1200mm, 34/8	34-8mm	1200mm	3.5mm
GT4-30X1500	Heavy Wall Heat Shrink Tube, 1500mm, 34/8	34-8mm	1500mm	3.5mm
GT4-40X300*	Heavy Wall Heat Shrink Tube, 300mm, 41/12	41-12mm	300mm	4.5mm
GT4-40X1200	Heavy Wall Heat Shrink Tube, 1200mm, 41/12	41-12mm	1200mm	4.5mm
GT4-40X1500	Heavy Wall Heat Shrink Tube, 1500mm, 41/12	41-12mm	1500mm	4.5mm
GT4-50X300*	Heavy Wall Heat Shrink Tube, 300mm, 56/16	56-16mm	300mm	4.5mm
GT4-50X1200	Heavy Wall Heat Shrink Tube, 1200mm, 56/16	56-16mm	1200mm	4.5mm
GT4-50X1500	Heavy Wall Heat Shrink Tube, 1500mm, 56/16	56-16mm	1500mm	4.5mm
GT4-70X300*	Heavy Wall Heat Shrink Tube, 300mm, 73/22	73-22mm	300mm	4.5mm
GT4-70X1200	Heavy Wall Heat Shrink Tube, 1200mm, 73/22	73-22mm	1200mm	4.5mm
GT4-70X1500	Heavy Wall Heat Shrink Tube, 1500mm, 73/22	73-22mm	1500mm	4.5mm
GT4-90X300*	Heavy Wall Heat Shrink Tube, 300mm, 90/22	90-22mm	300mm	4.5mm
GT4-90X1200	Heavy Wall Heat Shrink Tube, 1200mm, 90/22	90-22mm	1200mm	4.5mm
GT4-90X1500	Heavy Wall Heat Shrink Tube, 1500mm, 90/22	90-22mm	1500mm	4.5mm
GT4-120X300*	Heavy Wall Heat Shrink Tube, 300mm, 130/40	130-40mm	300mm	4.5mm
GT4-120X1200	Heavy Wall Heat Shrink Tube, 1200mm, 130/40	130-40mm	1200mm	4.5mm
GT4-120X1500	Heavy Wall Heat Shrink Tube, 1500mm, 130/40	130-40mm	1500mm	4.5mm

* sold in 5 piece packs only

THREE FINGER CLIP SEAL //

Item/Part number	Description
TFCS01	Three Finger Clip Seal (small)
TFCS02	Three Finger Clip Seal (large)



WRAP AROUND REPAIR HEAT SHRINK GT11 //

Item/Part number	Description	Size	Length	Wall thickness
GT11-34X300	Wrap Around Heat Shrink Repair Sleeve, 300mm, 41/10	41-10mm	300mm	2.5mm
GT11-34X1500	Wrap Around Heat Shrink Repair Sleeve, 1500mm, 41/10	41-10mm	1500mm	2.5mm
GT11-50X300	Wrap Around Heat Shrink Repair Sleeve, 300mm, 55/15	55-15mm	300mm	2.5mm
GT11-50X1500	Wrap Around Heat Shrink Repair Sleeve, 1500mm, 55/15	55-15mm	1500mm	2.5mm
GT11-75X300	Wrap Around Heat Shrink Repair Sleeve, 300mm, 75/22	75-22mm	300mm	2.8mm
GT11-75X1500	Wrap Around Heat Shrink Repair Sleeve, 1500mm, 75/22	75-22mm	1500mm	2.8mm
GT11-105X300	Wrap Around Heat Shrink Repair Sleeve, 300mm, 105/30	105-30mm	300mm	3.0mm
GT11-105X1500	Wrap Around Heat Shrink Repair Sleeve, 1500mm, 105/30	105-30mm	1500mm	3.0mm
GT11-146X300	Wrap Around Heat Shrink Repair Sleeve, 300mm, 146/38	146-38mm	300mm	3.5mm
GT11-146X1500	Wrap Around Heat Shrink Repair Sleeve, 1500mm, 146/38	146-38mm	1500mm	3.5mm
GT11-164X300	Wrap Around Heat Shrink Repair Sleeve, 300mm, 164/45	164-45mm	300mm	3.5mm
GT11-164X1500	Wrap Around Heat Shrink Repair Sleeve, 1500mm, 164/45	164-45mm	1500mm	3.5mm
GT11-200X300	Wrap Around Heat Shrink Repair Sleeve, 300mm, 200/55	200-55mm	300mm	3.5mm
GT11-200X1500	Wrap Around Heat Shrink Repair Sleeve, 1500mm, 200/55	200-55mm	1500mm	3.5mm

CABLE BREAKOUT BOOTS/GLOVES //

Item/Part number	Description
GLOVE2F33-14	LV BASE 33/10mm 2 FINGER 14/3mm
GLOVE2F60-24	LV BASE 60/22mm 2 FINGER 24/6.7mm
GLOVE3F38-15	LV BASE 38/14 mm 3 FINGER 15/4mm
GLOVE3F60-26	LV BASE 60/22mm 3 FINGER 26/8mm
GLOVE3F80-36	LV BASE 80/33mm 3 FINGER 36/16mm
GLOVE3F110-48	LV BASE 110/47mm 3 FINGER 48/20mm
GLOVE3F125-55	LV BASE 125/47mm 3 FINGER 55/20mm
GLOVE4F50-15	LV BASE 50/14mm 4 FINGER 15/3.2mm
GLOVE4F65-25	LV BASE 65/25mm 4 FINGER 25/6mm
GLOVE4F100-35	LV BASE 100/33mm 4 FINGER 35/14mm

LV HEAT SHRINK ENDCAPS //

Item/Part number	Description
IXL100S	END CAP max/min 20-6mm
IXL105	END CAP max/min 25-8.5mm
IXL120	END CAP max/min 40-14.5mm
IXL130	END CAP max/min 63-24mm
IXL135	END CAP max/min 75-32mm
IXL145	END CAP max/min 106-45mm
IXL160	END CAP max/min 120-57mm



COPPER CRIMP LUGS //

Features

- Seamless copper tube
- Electro tinned
- Fits standard metric cables from 0.5 to 1000mm²
- IEC standard 61238-1
- For detailed tooling information, see the **Tools** and **Tooling Technical Reference Guide** sections

Item/Part No.	Pack Size	Conductor Area	Stranding Metric	Stud size E	Item/Part No.	Pack Size	Conductor Area	Stranding Metric	Stud size
CLG1.5M4/100	100	0.5 - 1.5	1/0.80	M4	CLG35M6/50	50	35	19/1.53	M6
CLG1.5SM5/100	100	0.5 - 1.5	1/0.80	M5	CLG35M8/50	50	35	19/1.53	M8
CLG1.5LM5/100	100	0.5 - 1.5	1/0.80	M5	CLG35M10/50	50	35	19/1.53	M10
CLG1.5M6/100	100	0.5 - 1.5	1/0.80	M6	CLG35M12/50	50	35	19/1.53	M12
CLG1.5M8/100	100	0.5 - 1.5	1/0.80	M8	CLG50M6/25	25	50	19/1.78	M6
CLG2.5M4/100	100	2.5	7/0.67	M4	CLG50M8/25	25	50	19/1.78	M8
CLG2.5M5/100	100	2.5	7/0.67	M5	CLG50M10/25	25	50	19/1.78	M10
CLG2.5M6/100	100	2.5	7/0.67	M6	CLG50M12/25	25	50	19/1.78	M12
CLG2.5M8/100	100	2.5	7/0.67	M8	CLG70M6/25	25	70	19/2.14	M6
CLG4SM5/100	100	4	7/0.85	M5	CLG70M8/25	25	70	19/2.14	M8
CLG4LM5/100	100	4	7/0.85	M5	CLG70M10/25	25	70	19/2.14	M10
CLG4M6/100	100	4	7/0.85	M6	CLG70M12/25	25	70	19/2.14	M12
CLG4M8/100	100	4	7/0.85	M8	CLG70M16/25	25	70	19/2.14	M16
CLG4M10/100	100	4	7/0.85	M10	CLG70M20/25	25	70	19/2.14	M20
CLG6M6/100	100	6	7/1.04	M6	CLG95M8	1	95	37/1.78	M8
CLG6M8/100	100	6	7/1.04	M8	CLG95M10	1	95	37/1.78	M10
CLG6M10/100	100	6	7/1.04	M10	CLG95M12	1	95	37/1.78	M12
CLG10SM6/50	50	10	7/1.35	M6	CLG95M16	1	95	37/1.78	M16
CLG10LM6/50	50	10	7/1.35	M6	CLG95M20	1	95	37/1.78	M20
CLG10M8/50	50	10	7/1.35	M8	CLG120M10	1	120	37/2.03	M10
CLG10M10/50	50	10	7/1.35	M10	CLG120M12	1	120	37/2.03	M12
CLG16M5/50	50	16	7/1.70	M5	CLG120M16	1	120	37/2.03	M16
CLG16M6/50	50	16	7/1.70	M6	CLG150M10	1	150	37/2.25	M10
CLG16M8/50	50	16	7/1.70	M8	CLG150M12	1	150	37/2.25	M12
CLG16M10/50	50	16	7/1.70	M10	CLG150M16	1	150	37/2.25	M16
CLG16M11/50	50	16	7/1.70	M11	CLG185M10	1	185	37/2.52	M10
CLG16M12/50	50	16	7/1.70	M12	CLG185M12	1	185	37/2.52	M12
CLG20M6/50	50	20	19/0.44	M6	CLG185M16	1	185	37/2.52	M16
CLG20M8/50	50	20	19/0.44	M8	CLG185M20	1	185	37/2.52	M20
CLG20M10/50	50	20	19/0.44	M10	CLG240MB	1	240	61/2.25	MB
CLG25M6/50	50	25	19/1.35	M6	CLG240M12	1	240	61/2.25	M12
CLG25M8/50	50	25	19/1.35	M8	CLG300MB	1	300	61/2.52	MB
CLG25NZM8/50	50	25NZ	7/2.14	M8	CLG400MB	1	400	61/2.85	MB
CLG25M10/50	50	25	19/1.35	M10	CLG500MB	1	500	61/3.20	MB
CLG25M12/50	50	25	19/1.35	M12	CLG630MB	1	630	127/2.52	MB
					CLG800MB	1	800	127/2.85	MB
					CLG1000MB	1	1000	27/3.20	MB

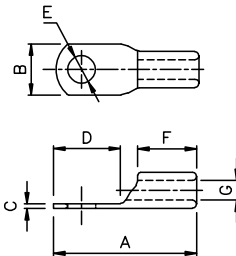
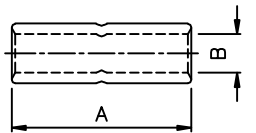


COPPER CRIMP LINKS //

Features

- Solid drawn copper tube
- Centre dimples
- Ends reamed
- IEC Standard 61238-1

Item/Part No.	Pack Size	Conductor Area (mm ²)
CLK1.5/100	100	0.5 - 1.5
CLK2.5/100	100	2.5
CLK4/50	50	4
CLK6/50	50	6
CLK10/50	50	10
CLK16/50	50	16
CLK20/50	50	20
CLK25/50	50	25
CLK35/25	25	35
CLK50/25	25	50
CLK70/25	25	70
CLK95	1	95
CLK120	1	120
CLK150	1	150
CLK185	1	185
CLK240	1	240
CLK300	1	300
CLK400	1	400
CLK500	1	500
CLK630	1	630
CLK800	1	800
CLK1000	1	1000
CLG16M6/50	50	16
CLG16M8/50	50	16
CLG16M10/50	50	16
CLG16M11/50	50	16
CLG16M12/50	50	16
CLG20M6/50	50	20
CLG20M8/50	50	20
CLG20M10/50	50	20
CLG25M6/50	50	25
CLG25M8/50	50	25
CLG25NZM8/50	50	25NZ
CLG25M10/50	50	25
CLG25M12/50	50	25

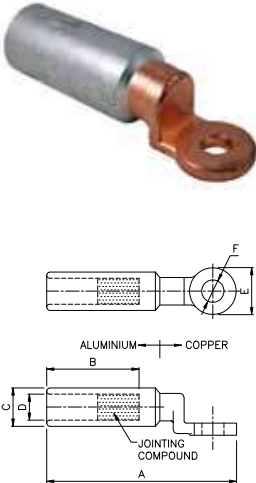


BI-METAL CRIMP LUGS //

Features

- Friction welded
- Pre-filled with joint compound
- For aluminium to copper terminations
- Manufactured from high purity copper and aluminium rod
- Reverse bi-metal (aluminium palm, copper barrel) lugs are manufactured to approved order quantities
- IEC Standard 61238-1
- Individually packed in sealed plastic bags

Item/Part No.	Conductor Area (mm²)	Stranding Metric	Stud size F
BLG16M10	16	7/1.70	M10
BLG25M8	25	19/1.35	M8
BLG25M10	25	19/1.35	M10
BLG35M8	35	19/1.53	M8
BLG35M10	35	19/1.53	M10
BLG35M12	35	19/1.53	M12
BLG50M10	50	19/1.78	M10
BLG50M12	50	19/1.78	M12
BLG70M10	70	19/2.14	M10
BLG70M12	70	19/2.14	M12
BLG95M10	95	37/1.78	M10
BLG95M12	95	37/1.78	M12
BLG120M10	120	37/2.03	M10
BLG120M12	120	37/2.03	M12
BLG150M10	150	37/2.25	M10
BLG185M10	185	37/2.52	M10
BLG185M12	185	37/2.52	M12
BLG185M16	185	37/2.52	M16
BLG240M10	240	61/2.25	M10
BLG240M12	240	61/2.25	M12
BLG240M16	240	61/2.25	M16
BLG300M10	300	61/2.52	M10
BLG300M12	300	61/2.52	M12
BLG400MB	400	61/2.85	MB
BLG500MB	500	61/3.20	MB
BLG630MB	630	127/2.52	MB



BI-METAL CRIMP LINKS //

Features

- Suitable for aluminium to copper in-line terminations
- Friction welded
- Manufactured from high purity copper and aluminium rod
- Pre-filled with joint compound
- Individually packed in sealed plastic bags

Item/Part No.	Conductor Area (mm²)	Stranding Metric	Item/Part No.	Conductor Area (mm²)	Stranding Metric
BRLK25A16C	25/16	19/1.35 - 7/1.70	BRLK185A16C	185/16	37/2.52 - 7/170
BRLK35A16C	35/16	19/1.53 - 7/1.70	BRLK185A25C	185/25	37/2.52 - 19/1.35
BRLK35A25C	35/25	19/1.53 - 19/1.35	BRLK185A35C	185/35	37/2.52 - 19/1.53
BLK35A35C	35/35	19/1.53 - 19/1.53	BRLK185A70C	185/70	37/2.52 - 19/2.14
BRLK50A16C	50/16	19/1.78 - 7/1.70	BRLK185A95C	185/95	37/2.52 - 37/1.78
BRLK50A25C	50/25	19/1.78 - 19/1.35	BRLK185A120C	185/120	37/2.52 - 37/2.03
BRLK50A35C	50/35	19/1.78 - 19/1.53	BRLK185A150C	185/150	37/2.52 - 37/2.25
BRLK70A16C	70/16	19/2.14 - 7/1.70	BRLK240A16C	240/16	61/2.25 - 7/1.70
BRLK70A25C	70/25	19/2.14 - 19/1.35	BRLK240A25C	240/25	61/2.25 - 19/1.35
BRLK70A35C	70/35	19/2.14 - 19/1.53	BRLK240A35C	240/35	61/2.25 - 19/1.53
BRLK70A50C	70/50	19/2.14 - 19/1.78	BRLK240A50C	240/50	61/2.25 - 19/1.78
BRLK95A16C	95/16	37/1.78 - 7/1.70	BRLK240A70C	240/70	61/2.25 - 19/2.14
BRLK95A25C	95/25	37/1.78 - 19/1.35	BRLK240A95C	240/95	61/2.25 - 37/1.78
BRLK95A35C	95/35	37/1.78 - 19/1.53	BRLK240A120C	240/120	61/2.25 - 37/2.03
BRLK95A50C	95/50	37/1.78 - 19/1.78	BRLK240A150C	240/150	61/2.25 - 37/2.25
BRLK95A70C	95/70	37/1.78 - 19/2.14	BRLK240A185C	240/185	61/2.25 - 37/2.52
BLK95A95C	95/95	37/1.78 - 37/1.78	BRLK300A70C	300/70	61/2.52 - 19/2.14
BRLK120A16C	120/16	37/2.03 - 7/1.70	BRLK300A185C	300/185	61/2.52 - 37/2.52
BRLK120A25C	120/25	37/2.03 - 19/1.35	Crimp Tools for these two parts: CT-HYCP60ST (see below)		
BRLK120A35C	120/35	37/2.03 - 19/1.53	BRLK400A120C	400/120	61/2.85 - 37/2.03
BRLK120A50C	120/50	37/2.03 - 19/1.78	BRLK400A240C	400/240	61/2.85 - 61/2.25
BRLK120A70C	120/70	37/2.03 - 19/2.14			
BRLK120A95C	120/95	37/2.03 - 37/1.78			
BLK120A120C	120/120	37/2.03 - 37/2.03			
BRLK150A25C	150/25	37/2.25 - 19/1.35			
BRLK150A95C	150/95	37/2.25 - 37/1.78			
BRLK150A120C	150/120	37/2.25 - 37/2.03			
BLK150A150C	150/150	37/2.25 - 37/2.25			



*Please take special note that for the bi-metal crimp links, a lot of the copper crimp tool & die sizes do not match the mm² sizes being crimped. This is because (in many cases) the outer diameter of the copper crimp is larger than usual. Make sure you select the right crimp size or crimp dies on this page.



MECHANICAL LUGS //

FOR APPLICATIONS UP TO 33kV

Item/Part No.	Description
C16-95X12	33kV TINNED SHEARBOLT LUG 16-95mm² M12
C16-95X16	33kV TINNED SHEARBOLT LUG 16-95mm² M16
C50-150X12	33kV TINNED SHEARBOLT LUG 50-150mm² M12
C50-150X16	33kV TINNED SHEARBOLT LUG 50-150mm² M16
C70-240X12	33kV TINNED SHEARBOLT LUG 70-240mm² M12
C70-240X16	33kV TINNED SHEARBOLT LUG 70-240mm² M16
C95-240X12	33kV TINNED SHEARBOLT LUG 95-240mm² M12
C95-240X16	33kV TINNED SHEARBOLT LUG 95-240mm² M16
C120-300X12	33kV TINNED SHEARBOLT LUG 120-300mm² M12
C120-300X16	33kV TINNED SHEARBOLT LUG 120-300mm² M16
C185-400X12	33kV TINNED SHEARBOLT LUG 185-400mm² M12
C185-400X16	33kV TINNED SHEARBOLT LUG 185-400mm² M16
C400-630X12	33kV TINNED SHEARBOLT LUG 400-630mm² M12
C400-630X16	33kV TINNED SHEARBOLT LUG 400-630mm² M16
C630-1000X20	33kV TINNED SHEARBOLT LUG 630-1000mm² M20

SHEARBOLT TOOLS & ACCESSORIES //

Item/Part No.	Description
WR18DL	Hitachi Cordless Wrench 18 Volts c/w battery and charger
WR SOCKET	Socket & Allen Key Set for WR18DL
IT1000020	Universal Holding Tool for Mechanical Connectors
ITL03116	Insulated Universal Holding Tool for Mechanical Connectors (adjustable)



MECHANICAL LINKS //

FOR APPLICATIONS UP TO 1kV

Item/Part No.	Description
1070M5	1kV BRASS SCREEN WIRE SHEARBOLT LINK 10-70mm²
625SV-T-V-K	1kV TINNED 6-25mm² c/w barrier shearbolt link
625SV-V-K	1kV TINNED SHEARBOLT LINK 6-25mm²
1650SV-T-V-K	1kV TINNED 16-50mm² c/w barrier shearbolt link
1650SV-V-K	1kV TINNED SHEARBOLT LINK 16-50mm²
2595SV-T-V-K	1kV TINNED 25-95mm² c/w barrier shearbolt link
2595SV-V-K	1kV TINNED SHEARBOLT LINK 25-95mm²
25185SV-T-V-K	1kV TINNED 25-185mm² c/w barrier shearbolt link
25185SV-V-K	1kV TINNED SHEARBOLT LINK 25-185mm²

FOR APPLICATIONS UP TO 33kV

Item/Part No.	Description
M16-95	33kV TINNED SHEARBOLT LINK 16-95mm² c/w water block
M50-150	33kV TINNED SHEARBOLT LINK 50-150mm² c/w water block
M95-240	33kV TINNED SHEARBOLT LINK 95-240mm² c/w water block
M120-300	33kV TINNED SHEARBOLT LINK 120-300mm² c/w water block
M185-400	33kV TINNED SHEARBOLT LINK 185-400mm² c/w water block
M400-630	33kV TINNED SHEARBOLT LINK 400-630mm² c/w water block
M630-1000	33kV TINNED SHEARBOLT LINK 630-1000mm² c/w water block

REDUCING LINKS //

Item/Part No.	Description
M95-240/16-95	33kV TINNED REDUCING SHEARBOLT LINK 95-240/16-95mm² c/w water block
M185-400/95-240	33kV TINNED REDUCING SHEARBOLT LINK 185-400/95-240mm² c/w water block
M400-630/120-300	33kV TINNED REDUCING SHEARBOLT LINK 400-630/120-300mm² c/w water block

SHEARBOLT TOOLS & ACCESSORIES //

Item/Part No.	Description
WR18DL	Hitachi Cordless Wrench 18 Volts c/w battery and charger
WR SOCKET	Socket & Allen Key Set for WR18DL
IT1000020	Universal Holding Tool for Mechanical Connectors
ITL03116	Insulated Universal Holding Tool for Mechanical Connectors (adjustable)



NYLOFIX

NYLOFIX CONDUIT - Flexible corrugated conduit //

Features		Applications				
- Modified polyamide (PA 6) - Temp Range (-40°C to 105°C) - Halogen Free - Heat resistant and self extinguishing (HB acc. to UL94) - In accordance with EN 60204-1		- General purpose - Automation - Robotics - Electrical and telecommunication installations - Building construction				
Part number	Description	Nominal Diameter (mm)	Øint. Diameter (mm)	Øext. Diameter (mm)	Min bend radius R (static)	Packaging in metres
NF1625	Flexible conduit 16mm	12	12.2	15.8	30	25
NF2025	Flexible conduit 20mm	17	16.8	21.2	40	25
NF2525	Flexible conduit 25mm	23	22.6	28.5	55	25
NF3225	Flexible conduit 32mm	29	28.3	34.5	65	25
NF4030	Flexible conduit 40mm	36	36.3	42.5	80	30
NF5030	Flexible conduit 50mm	48	47.4	54.5	95	30

Available in colours Grey or Black. Add GY or BK to end of Part number i.e. NF1625GY

NYLOFIX STRAIGHT CONNECTOR - Straight metric thread connector //

Features		Applications							
- Modified polyamide (PA 6) - Temp Range (-40°C to 105°C) - Halogen Free - Self extinguishing - Shock-resistant		- IP66 protection, IP68 and IP69K with O-Ring and Sealing Washers “Easy-click” quick assembly and removal of the conduit without tools - In accordance with EN 60204 and EN 60423 - Supplied with Locknuts							
Applications									
Control panels		Terminal boxes							
Part number	For Conduit Nominal Diameter (mm)	Thread	Øint. Diameter (mm)	A	B	C	D	LR	Fits conduit
NFAD16	12	M16x1.5	10	37	26	25	20	11	NF1625
NFAD20	17	M20x1.5	14.5	44	31	30	27	11	NF2025
NFAD25	23	M25x1.5	18.5	48	37	37	34	12	NF2525
NFAD32	29	M32x1.5	25.5	52	46	46	42	15	NF3225
NFAD40	36	M40x1.5	32	60	54	54	50	19	NF4030
NFAD50	48	M50x1.5	42	61	69	69	66	19	NF5030

Available in colours Grey or Black. Add GY or BK to end of Part number i.e. NFAD16GY



SAPISELCO MET METAL TONGUE CABLE TIES

Features				
Stainless Steel ‘Metal Tooth’		Strong and Durable		Flexible and Temp Resistant
Part number	Colour	Length	Width	Pack
MET.3.2102R	Black	100	2.5	100
MET.2.2110R	Natural	140	3.5	100
MET.3.2110R	Black	140	3.5	100
MET.2.2123R	Natural	186	4.5	100
MET.3.2123R	Black	186	4.5	100
MET.2.2140R	Natural	290	4.5	100
MET.3.2140R	Black	290	4.5	100
MET.2.2534R	Natural	360	7.5	50
MET.3.2534R	Black	360	7.5	50
MET.2.2126R	Natural	360	4.5	100
MET.3.2126R	Black	360	4.5	100

TECNOFLEX

PVC BLACK SPIRAL CONDUIT //

Features		Applications	
- Rigid PVC - Temp Range (5°C to 60°C) - Self extinguishing - In accordance with CEI-EN 50086-1, CEI-EN 50086-2-3, CEI-EN 61386 - Flexibility: 5000 bendings at 180° at temperature 5°C to 60°C - Bending Radius equal to twice diameter		- Compression Resistance: Class 2 - 320 Newton on 5cm at 23°C (+/-2°C tolerance) - Shock Resistance: Class 3 - 2kg from 10cm at -5°C temperature - Insulation: Electrical Resistance 100 Mega Ohm per 500V for 1 minute - Dielectrical Rigidity: 2000V at 50 Hz for 15 minutes - IP65 protection with straight adaptor	
Part number	Øint. Diameter (mm)	Øext. Diameter (mm)	Packaging in metres
T25001630	12	16.4	30
T25002030	16	20.7	30
T25002530	20	24.7	30
T25003230	25	30.6	30
T25004015	32	38	15
T25004030	32	38	30

STRAIGHT BLACK FITTING FOR PVC SPIRAL //
- Winds straight onto the conduit, Rotating style

Features		Applications	
- Self extinguishing polypropylene - Temp Range (5°C to 60°C) - Impact Resistance: 2kg from 10cm at -5°C temperature - Insulation: Electrical Resistance superior to 100Mohm at 500V during 1 minute		- Dielectrical Rigidity: superior to 2000V at 50 Hz during 15 minutes - In accordance with IEC 61386-1, IEC 61386-23, UL224 - IP 65 protection	
Part number	Øint. Diameter (mm)	Øext. Diameter (mm)/ Metric Tread (mm)	Fits to
T25061600	12	16	T25001630
T25062000	16	20	T25002030
T25062500	20	25	T25002530
T25063200	25	32	T25003230
T25064000	32	40	T25004030

90° CURVED BLACK FITTING FOR PVC SPIRAL //
- Winds straight onto the conduit, Rotating style

Features		Applications	
- Self extinguishing polypropylene - Temp Range (5°C to 60°C) - Impact Resistance: 2kg from 10cm at -5°C temperature - Insulation: Electrical Resistance superior to 100Mohm at 500V during 1 minute		- Dielectrical Rigidity: superior to 2000V at 50 Hz during 15 minutes - In accordance with IEC 61386-1, IEC 61386-23, UL224 - IP 65 protection	
Part number	Øint. Diameter (mm)	Øext. Diameter (mm)/ Metric Tread (mm)	Fits to
T25141600	12	16	T25001630
T25142000	16	20	T25002030
T25142500	20	25	T25002530
T25143200	25	32	T25003230
T25064000	32	40	T25004030



Lined area for notes.



SECTION 3

ENCLOSURES//

ENCLOSURE MATERIAL SELECTION GUIDE //

ABS/ACRYLONITRILE-BUTADIENE-STYRENE

INDOOR

- Easy machining with normal tools
- Low weight
- Easy colouring through pigmentation
- Good resistance to chemical attack
- Excellent insulating properties

PC/POLYCARBONATE

OUTDOOR

- Very high impact resistance
- Easy machining with normal tools
- Clean attractive finish
- Also available in transparent form
- High IP rating
- Wide operating temperature range
- Self-extinguishing
- Light weight
- Excellent insulating properties
- Good resistance to chemical attack
- Good UV resistance
- Cost-effective material for harsh environments

GRP/GLASS FIBRE REINFORCED POLYESTER

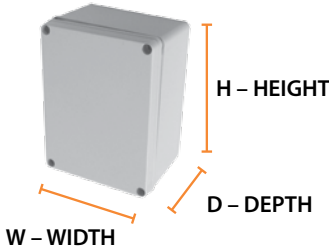
INDOOR/OUTDOOR

- High impact resistance
- Rigid construction
- Excellent record of resistance to corrosion & chemical attack
- Wide operating temperature range
- Fire resistant
- High weather resistance
- Good insulating properties



ENCLOSURE CUSTOMISATION //

- ASSEMBLY SERVICES
- CUSTOMISED MACHINING
- CUSTOMISED ENGRAVING
- DESIGN CREATION



Whatever your needs, Cuthbert Stewart Ltd will endeavour to provide a custom solution.



INDOOR RED LABEL

S SERIES – ECO – ABS GREY ENCLOSURES //

Features

- IP66 Protection rating (IEC 529)
- Good chemical & impact resistance
- Temperature range (-40°C to 120°C)
- Halogen free (non-toxic)

Part no.	H x W x D (mm)	Part no.	H x W x D (mm)
BC-AGS-050605	50 x 65 x 55	BC-AGS-060905	65 x 95 x 55
BC-AGS-071005	75 x 105 x 55	BC-AGS-080806	80 x 80 x 60
BC-AGS-101007	100 x 100 x 75	BC-AGS-101010	100 x 100 x 100
BC-AGS-101807	100 x 185 x 70	BC-AGS-121207	125 x 125 x 75
BC-AGS-121210	125 x 125 x 100	BC-AGS-121710	125 x 175 x 100
BC-AGS-142309	140 x 230 x 95	BC-AGS-151510	150 x 150 x 100
BC-AGS-152010	150 x 200 x 100	BC-AGS-161607	160 x 160 x 70
BC-AGS-202010	200 x 200 x 100	BC-AGS-202016	200 x 200 x 160

S SERIES – SMALL – ABS ENCLOSURES //

Features

- IP66 Protection rating (IEC 529)
- Good chemical & impact resistance
- Temperature range (-40°C to 120°C)
- Halogen free (non-toxic)

H x W x D (mm)	Description	ABS - GREY	Description	ABS TRANSPARENT
110 x 80 x 70	B65AG	8784303CSL	B65AT	8784003CSL
110 x 80 x 85	B85AG	8784304CSL	B85AT	8784004CSL
130 x 80 x 70	C65AG	8784305CSL	C65AT	8784005CSL
130 x 80 x 85	C85AG	8784306CSL	C85AT	8784006CSL
180 x 80 x 70	D65AG	8784307CSL	D65AT	8784007CSL
180 x 80 x 85	D85AG	8784308CSL	D85AT	8784008CSL
250 x 80 x 70	F65AG	8784311CSL	F65AT	8784011CSL
250 x 80 x 85	F85AG	8784312CSL	F85AT	8784012CSL
170 x 140 x 95	H95AG	8784315CSL	H95AT	8784015CSL
250 x 150 x 100	M95AG	8784318CSL	M95AT	8784018CSL

OUTDOOR BLUE LABEL

S SERIES – SMALL – PC ENCLOSURES //

Features

- Temperature range (-40°C to 120°C)
- U/V stabilised (For outdoor applications)
- IP67 Protection rating (IEC 529)
- Halogen free (non-toxic)
- Flame retardant

H x W x D (mm)	Description	GREY	Description	TRANSPARENT
110 x 80 x 70	B65PG	8731044CSL	B65PT	8711044CSL
110 x 80 x 85	B85PG	8731144CSL	B85PT	8711144CSL
130 x 80 x 70	C65PG	8731244CSL	C65PT	8711244CSL
130 x 80 x 85	C85PG	8731344CSL	C85PT	8711344CSL
180 x 80 x 70	D65PG	8731444CSL	D65PT	8711444CSL
180 x 80 x 85	D85PG	8731544CSL	D85PT	8711544CSL
250 x 80 x 70	F65PG	8731644CSL	F65PT	8711644CSL
250 x 80 x 85	F85PG	8731744CSL	F85PT	8711744CSL
170 x 140 x 95	H95PG	8731844CSL		
250 x 150 x 100	M95PG	8731944CSL		



INDOOR RED LABEL

Features

- IP67 Protection rating (IEC 529)
- Good chemical resistance
- Temperature range (-40°C to 80°C)
- Halogen free (non-toxic)

S SERIES (M) ABS ENCLOSURES //

Part no.	Description	H x W x D (mm)	Part no.	Description	H x W x D (mm)
76780041	F1-GS	190 x 190 x 130	76780046	F6-GS	560 x 380 x 180
76780042	F2-GS	280 x 190 x 130	76780047	F7-GS	380x 190 x 130
76780043	F3-GS	280 x 280 x 130	76780002	F2-GD	280x 190 x 180
76780044	F4-GS	380 x 280 x 130	76780004	F4-GD	380 x 280 x 180
76780045	F5-GS	560 x 280 x 130	76780007	F7-GD	380 x 190 x 180

NOTE: For the mounting panels see following pages

S SERIES (M) ABS TRANSPARENT ENCLOSURES //

Part no.	Description	H x W x D (mm)	Part no.	Description	H x W x D (mm)
76780061	F1-TS	190 x 190 x 130	76780066	F6-TS	560 x 380 x 180
76780062	F2-TS	280 x 190 x 130	76780067	F7-TS	380 x 190 x 130
76780063	F3-TS	280 x 280 x 130	76780022	F2-TD	280 x 190 x 180
76780064	F4-TS	380 x 280 x 130	76780024	F4-TD	380 x 280 x 180
76780065	F5-TS	560 x 280 x 130	76780027	F7-TD	380 x 190 x 180

NOTE: For the mounting panels see following pages

OUTDOOR BLUE LABEL

Features

- IP67 Protection rating (IEC 529)
- Temperature range (-40°C to 120°C)
- Good chemical resistance
- Halogen free (non-toxic)
- U/V stabilised (for outdoor applications)

S SERIES (M) PC GREY ENCLOSURES //

Part no.	Description	H x W x D (mm)	Part no.	Description	H x W x D (mm)
76730041	P1-GS	190 x 190 x 130	76730046	P6-GS	560 x 380 x 180
76730042	P2-GS	280 x 190 x 130	76730047	P7-GS	380 x 190 x 130
76730043	P3-GS	280 x 280 x 130	76730002	P2-GD	280 x 190 x 180
76730044	P4-GS	380 x 280 x 130	76730004	P4-GD	380 x 280 x 180
76730045	P5-GS	560 x 280 x 130	76730007	P7-GD	380 x 190 x 180

NOTE: For the mounting panels see following pages

S SERIES (M) PC TRANSPARENT ENCLOSURES //

Part no.	Description	H x W x D (mm)	Part no.	Description	H x W x D (mm)
76730061	P1-TS	190 x 190 x 130	76730066	P6-TS	560 x 380 x 180
76730062	P2-TS	280 x 190 x 130	76730067	P7-TS	380 x 190 x 130
76730063	P3-TS	280 x 280 x 130	76730022	P2-TD	280 x 190 x 180
76730064	P4-TS	380 x 280 x 130	76730024	P4-TD	380 x 280 x 180
76730065	P5-TS	560 x 280 x 130	76730027	P7-TD	380 x 190 x 180

NOTE: For the mounting panels see following pages

OUTDOOR BLUE LABEL

Features

- IP67 Protection rating (IEC 529)
- Temperature range (-40°C to 120°C)
- Polycarbonate
- Halogen free (non-toxic)
- U/V stabilised (for outdoor applications)
- SS304 Hinges

S SERIES (M) PC HINGED

Part no.	Description	H x W x D (mm)	Part no.	Description	H x W x D (mm)
76730051	P11-GS	190 x 190 x 130	76730056	P16-GS	560 x 380 x 180
76730052	P12-GS	280 x 190 x 130	76730057	P17-GS	380 x 190 x 130
76730053	P13-GS	280 x 280 x 130	76730012	P12-GD	280 x 190 x 180
76730054	P14-GS	380 x 280 x 130	76730014	P14-GD	380 x 280 x 180
76730055	P15-GS	560 x 280 x 130	76730017	P17-GD	380 x 190 x 180

NOTE: For the mounting panels see following pages

S SERIES (M) PC TRANSPARENT HINGED

Part no.	Description	H x W x D (mm)	Part no.	Description	H x W x D (mm)
76730071	P11-TS	190 x 190 x 130	76730076	P16-TS	560 x 380 x 180
76730072	P12-TS	280 x 190 x 130	76730077	P17-TS	380 x 190 x 130
76730073	P13-TS	280 x 280 x 130	76730032	P12-TD	280 x 190 x 180
76730074	P14-TS	380 x 280 x 130	76730034	P14-TD	380 x 280 x 180
76730075	P15-TS	560 x 280 x 130	76730037	P17-TD	380 x 190 x 180

NOTE: For the mounting panels see following pages

Q SERIES – QUICK LATCH – ABS //

Features

- IP67 Protection rating (IEC 529)
- Moulded hinge type and Quick latch
- Available in either (ABS) – Indoor or (PC) – Outdoor U/V stabilised
- POA for transparent lid versions

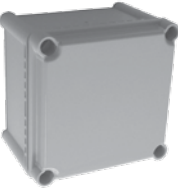
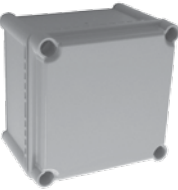
Part number	H x W x D (mm)	Part number	H x W x D (mm)
BC-AGP-162110	210 x 160 x 100	BC-AGP-354516	450 x 350 x 160
BC-AGP-192814	280 x 190 x 140	BC-AGP-405016	500 x 400 x 160
BC-AGP-282813	280 x 280 x 130	BC-AGP-406018	600 x 400 x 180
BC-AGP-283813	380 x 280 x 130		

Q SERIES – QUICK LATCH – PC //

Features

- IP67 Protection rating (IEC 529)
- Moulded hinge type and Quick latch
- Available in either (ABS) – Indoor or (PC) – Outdoor U/V stabilised
- POA for transparent lid versions

Part number	H x W x D (mm)	Part number	H x W x D (mm)
BC-CGP-162110	210 x 160 x 100	BC-CGP-354516	450 x 350 x 160
BC-CGP-192814	280 x 190 x 140	BC-CGP-405016	500 x 400 x 160
BC-CGP-282813	280 x 280 x 130	BC-CGP-406018	600 x 400 x 180
BC-CGP-283813	380 x 280 x 130		



INDOOR/OUTDOOR

S SERIES – SMALL // MOUNTING PANELS

Part no.	Dimensions	Enclosure	Part no.	Dimensions	Enclosure
87F24060	80 x 54 mm	B65/B85	87F24063	200 x 54 mm	F65/F85
87F24061	110 x 54 mm	C65/C85	87F24064	125 x 95 mm	H95
87F24062	140 x 54 mm	D65/D85	87F24065	205 x 95 mm	M95

S SERIES – MEDIUM // MOUNTING PANELS

Description	Part no.	H x W (mm)	Description	Part no.	H x W (mm)
Formica mounting panel to suit:			Formica mounting panel to suit:		
F1	37F70548	190 x 190	F5	37F70553	560 x 280
F2	37F70549	280 x 190	F6	37F70554	560 x 380
F3	37F70551	280 x 280	F7	37F70550	380 x 190
F4	37F70552	380 x 280			

Q SERIES QUICK LATCH // MOUNTING PANELS

Part no.	H x W (mm)	Part no.	H x W (mm)
Mounting panel to suit:		Mounting panel to suit:	
QLMP1621	160 x 210	QLMP3545	350 x 450
QLMP1928	190 x 280	QLMP4050	400 x 500
QLMP2828	280 x 280	QLMP4060	400 x 600
QLMP2838	280 x 380		

GENERAL ACCESSORIES //

Part no.	Description	Note	Part no.	Description	Note
V60	Ventilator	small	V80	Ventilator	large

INDOOR/OUTDOOR

WEIDMÜLLER K ALUMINIUM ENCLOSURES //

Features		
• High-quality die cast aluminium	• Smooth wall	• Captive stainless steel slotted/crosshead screws
• Chloroprene CR o-ring lid gasket	• 7J(NM) Impact resistance	• IP66/67 Protection rating

Description	Part no.	W x L x D (mm)	Description	Part no.	W x L x D (mm)
KO	05732000	45 x 50 x 30	K4	03423000	82 x 130 x 72
KO1	15652400	64 x 58 x 34	K41	15652700	120 x 122 x 81
K1	03420000	70 x 70 x 45	K51	15652800	120 x 220 x 81
K2	03421000	70 x 100 x 45	K5	03424000	130 x 170 x 90
K3	03422000	70 x 165 x 45	K52	15652900	160 x 160 x 91
K32	15652600	80 x 250 x 55	K6	03425000	160 x 200 x 100
K11	05733000	80 x 75 x 57	K61	05736000	160 x 260 x 91
K21	05734000	80 x 125 x 57	K7	03426000	160 x 350 x 100
K31	05735000	80 x 175 x 57	K71	05737000	230 x 280 x 111

CAB POLYESTER CABINETS //

Features		
• IP66 Protection rating (IEC 529)	• Corrosion and chemical resistant	• UV stabilised (for outdoor applications)
• Temperature range (-30°C to 120°C)	• UV stabilised (for outdoor applications)	• Glass fibre reinforced polyester (GRP)
• Complete with free Formica mounting panel		

Part no.	H x W x D (mm)	Part no.	H x W x D (mm)
8104303	300 x 250 x 140	8104306	600 x 400 x 230
8104304	400 x 300 x 200	8104308	800 x 600 x 300
8104305	500 x 400 x 200	8104318	800 x 300 x 230

CABINETS WITH WINDOWS (GLAZED DOOR) //

Features	
• Note : To keep IP rating integrity, this product is purposely constructed when ordered. Please allow 48 hours minimum.	

Part no.	H x W x D (mm)	Part no.	H x W x D (mm)
8104004	400 x 300 x 140	8104018	800 x 300 x 230
8104005	500 x 400 x 200	8104008	800 x 600 x 300
8104006	600 x 400 x 230		

INTERNAL MOUNTING DOORS //

Part number	Description	Part number	Description
PUI-43	Internal door for CAB-43	PUI-83	Internal door for CAB-83
PUI-54	Internal door for CAB-54	PUI-86	Internal door for CAB-86
PUI-64	Internal door for CAB-64		

MODULAR DIN – CHASSIS COMPLETE WITH POLYESTER PROTECTOR PANEL //

Part number	Description	Part number	Description
CHM-325	20 module 270 x 226 x 110	CHM-64	72 module 565 x 378 x 125
CHM-43	24 module 365 x 278 x 125	CHM-86	145 module 765 x 378 x 125
CHM-54	54 module 465 x 378 x 125		

CAB – ACCESSORIES //

Part number	Description	Part number	Description
DV-M	Vent device – mini	CML-12	Lock and key (standard)
DV-B	Vent device – large	CBC-13	Lock and key
CCU-08	8mm square lock	OFM-14	Wall mount lugs (set of 4)
CDB-10	Double bar closing system lock	OFM-14F	Pole mount lugs (set of 4)
CTR-11	11mm triangular lock		

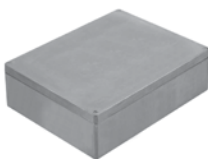
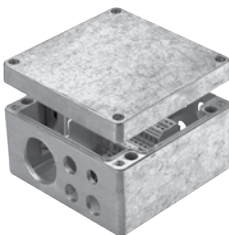
CA SERIES //

Features	
• IP66 Protection rating • Light grey RAL7035 • Non-toxic (halogen free) • POA on transparent lid options	
• Temperature range (-50°C to 120°C) • Fibreglass reinforced polyester base – U/V stabilised PC lid	

Grey modular enclosure			
Part number	H x W x D (mm)	Part number	H x W x D (mm)
CA-315	270 x 135 x 130	CA-43	360 x 270 x 170
CA-32	270 x 180 x 170	CA-63	540 x 270 x 170
CA-33	270 x 270 x 170	CA-66	540 x 540 x 170
CA-42	360 x 180 x 170		

CA ACCESSORIES //

Features				
Part number	Description		Part number	Description
DV-M	Vent device – mini		60-BRE-EX	External rigid hinge
DV-B	Vent device – large			



Weidmüller

INDOOR/OUTDOOR

CSL ENCLOSURES STAINLESS STEEL (304) RANGE //

Features

- IP66 Protection rating
- 304 Stainless Steel
- All International Standards Applicable
- Supplied standard with 2.0mm Sensimir Mounting Panel

Part no.	Description	Part no.	Description
FQ203015	SS304 (300x200x150)	FQ406021	SS304 (600x400x210)
FQ253015	SS304 (300x250x150)	FQ606025	SS304 (600x600x250)
FQ303015	SS304 (300x300x150)	FQ507025	SS304 (700x500x250)
FQ304015	SS304 (400x300x150)	FQ608025	SS304 (800x600x250)
FQ304021	SS304 (400x300x210)	FQ808030	SS304 (800x800x300)
FQ404021	SS304 (400x400x210)	FQ8010030	SS304 (1000x800x300)
FQ405021	SS304 (500x400x210)		
ACCESSORIES			
F3100360C	T Handle-Key Lock	SP00050	Set of 4 Wall Mount Brackets
F3200130C	L Handle-Key Lock	FKC00070	Plastic Lock with Padlock Facility



SECTION 4



IDENTIFICATION
SOLUTIONS //



CUSTOMISED PRINTING & ENGRAVING //

Engraved labels using hi-tech laser, rotary engraving systems and thermal transfer printers, enable us to provide the following engraving and printing solutions:

STAINLESS STEEL

- | | | | |
|-------------------------|----------------|-------------|--|
| • Control panels | • Mimic panels | • Hydraulic | • Requirements for ordering: CAD, PDF drawings, spread sheet or order form |
| • Cable markers | • Schematic | • Pneumatic | |
| • Identification plates | • Marine | | |

OTHER METALS

- | | | |
|-------------|---------|---------|
| • Aluminium | • Brass | • Steel |
|-------------|---------|---------|

OTHER PRODUCTS

- | | | | |
|----------------------------|----------------|------------------------|----------------------|
| • Custom printed test tags | • Pole numbers | • Lockout warning tags | • Sub-station labels |
|----------------------------|----------------|------------------------|----------------------|

LAMINATED PLASTIC (FORMICA/TRAPHOLITE)

Available in standard or reverse engraved. Pricing by size. Engraved: 75mm x 25mm standard engraved (example).

- | | | | |
|----------------------|--------------------|---------------------------------------|---|
| • Switchboard labels | • Control switch | • Personalised labels including logos | • Requirements for ordering: CAD, PDF drawings, spreadsheet or order form |
| • Mimic panels | • Reverse engraved | | |
| • All colours | • UV protected | | |

CABLE WIRE TERMINAL IDENTIFICATION LABELS

- | | | | |
|--|--|---|---|
| • Custom printed Partex cable and wire markers | • Custom printed Weidmüller terminal identifiers | • Custom printed ShrinkTech IDST marker sleeves | • Requirements for ordering: CAD, PDF drawings, spreadsheet or order form |
| • Component identification | • Ethernet identification | • Pre-printed wrap around labels | |
| • Write-on markers | | | |



CABLE LABELS //

Applications

- Custom printed stainless steel cable identification strips • Cable ties or mounting holes for fixing • Sold as singles

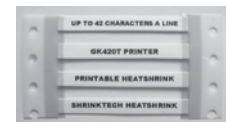
Part number	Description
316SSCP	80mm stainless steel cable label (stainless steel or plastic cable tie)
PKS10040FQSCP	47mm stainless steel cable label (stainless steel cable tie only)
PKS10080FQSCP	87mm stainless steel cable label (stainless steel cable tie only)
PKS10080FQHCP	87mm stainless steel cable label (holes for fixing)

SHRINKTECH //

HEATSHRINK LABELS – Dairy industry specified, up to 42 characters per line (50mm length)

Part number	Box/Roll Quantity	Description
IDST1/8.9-250	250	ShrinkTech 1/8 white
IDST1/8.9-1K	1000	ShrinkTech 1/8 white
IDST1/8.4-250	250	ShrinkTech 1/8 yellow
IDST1/4.9-250	250	ShrinkTech 1/4 white
IDST1/4.9-1K	1000	ShrinkTech 1/4 white
IDST1/4.4-250	250	ShrinkTech 1/4 yellow
IDST1/2.9-250	250	ShrinkTech 1/2 white
IDST1/2.4-250	250	ShrinkTech 1/2 yellow
IDST1.9-250	250	ShrinkTech 1" white

For orders or pricing please contact: labels@cuthbertstewart.co.nz



Use with GK420T printer on page 54.



PARTEX T-800 //

ProMark T-800 is a successor of Partex's most popular profile printer MK9-USB. Complemented with new options, and menu with Partex article numbers, is it a perfect solution for installers and producers of controls cabinets and panel boards.

Features

- | | |
|---|--|
| • High production speed | • Thermal transfer printing: 300 dpi print resolution |
| • Cleans profile before print | • PC connection: USB 2.0 connection and Partex software WinSign. |
| • In-built settings for all Partex profiles | • 40mm/s high speed print mode or 18.5mm/s in low speed mode |
| • Temp Range: Operating - +15°C to +32.5°C
Operating with pre-heater - from +5°C
Storage: +5°C to +35°C | • Text heights: 2, 3, 4 or 6 mm maximum 1-3 rows. |

To obtain the best printing result, the temperature of the profile shouldn't be lower then +20°C

Part number	Description
PROMARK-T800	Partex Promark T-800 Printer
PROMARK-T800-KIT1	Partex Promark T-800 Printer, Black starting ribbon (40m), tube attachment, AC adapter, power cable, USB cable, software, soft carrying case, PO-068-TWSN4, PO-05000SN4, MKRS3



PARTEX T-800 ACCESSORIES //

Part number	Description	Quantity
T800-RB-BLACK	black ribbon 100m	1
T800-RB-WHITE	white ribbon 85m	1
T800-CU	cutting unit	1
T800-TA	tube attachment	1
T800-TA-CLEAN	cleaning kit guide for tube attachment	1
T800-PA	plate attachment	1
T800-PA-CLEAN	cleaning kit guide for plate attachment	1
T800-TW	profile warmer	1
T800-TW-CLEAN	cleaning kit guide for profile heater	1
T800-AF	profile feeder	1
T800-HC	aluminium case	1
MK-RS3	reel stand	1

PARTEX MK3TC //

The MK3TC printer is a high resolution, high speed production thermo transfer printer for both monochrome and colour printout. Loaded with a number of cards in a feeder magazine, the printer feeds the cards one-by-one through the printer, where the individual tags are printed row-by-row. The ready printed cards are automatically fed to an output magazine.

Features

- | | |
|--|--|
| • Complete on-site production system for marking of cables, wires and components. | • Prints Partex PFC cards in credit card format with easy detachable marker tags for various holder systems and direct marking applications. |
| • Marking production with PC controlled thermo transfer card printer type MK3TC in monochrome or colour. | • Software: WinSign NG. |
| • A user friendly compact system with high production capacity. | • Communication interface: USB 1.1 cable included. |

Part number	Description
MK3TC	X-Card marking system

MK3TC PRINTER //

Accessories

Part number	Description	Quantity
E800015-101	Eltron P310 black ribbon	1
E105912-003	Eltron P310 adhesive rollers	5



Refer Partex PFC credit card format computerised type marking on pages 55, 56 and 61.



Refer Partex MK9-PL, PO, POZ, PP and PHZ computerised type marking on the pages following.



Refer Weidmüller computerised type marking systems on pages 63 and 64.



Refer IDST heat shrink labels on page 52.



PRINTERS & TEST TAGS //



PARTEX MK10 THERMAL TRANSFER PRINTER //

MK10 is a modern thermal transfer printer for Partex PO-profiles for all needs of wire and cable marking, with high production speed (up to 125 mm/sec).
MK10 has a direct connection to computer by means of a USB cable and is controlled by Partex software WinSign.

Features

- Compact heavy duty printer for high demand production for wire, cable and component marking.
- Feeds, prints and cuts bulk Partex profiles and self-adhesive profiles.
- MK10 is a very cost-effective identification system for use in panel building and electrical installations.
- USB connection, controlled by Partex software WinSign.

Part number	Description
MK10	Thermal transfer printer

WEIDMÜLLER PRINTJET PRO //

The PrintJet PRO inkjet printer prints markers for electrical connectivity. These markers can be used for clear equipment identification on devices, cables and connectors. The labelling makes servicing, maintenance and troubleshooting much easier.
Water-based ink is used for the black or spot colour printing. The print is crystal clear and resistant to environmental influences.

Features

- Top-quality, resistant printing
- Spot colour print
- Perfect for constant use
- Integrated loader for 20 MultiCards
- Ideal for large quantities
- The display shows all relevant information
- Flexible connection options, from LAN ports to USB ports

Part number	Description
1001180001	PrintJet PRO Inkjet printer

G-SERIES GK420T THERMAL DESKTOP PRINTER FOR HEAT SHRINK LABELS //

The G-Series compact desktop printer for print widths up to 4 inches, delivers 'best-in-class' speed and performance. The G-Series printer is reliable, durable and flexible.
Built with durability and reliability, the G-Series GK model provides the best value of all basic desktop printers. The space saving, direct thermal/thermal transfer printer saves users time with the easiest ribbon loading system available. A variety of connectivity options makes I.T. easy to integrate into existing local or networked systems. USB and serial connectivity interfaces come as standard option. The G-Series is a smart investment, offering a broad array of options and always a perfect fit.

Features

- ShrinkTech - identification heat shrinkable marker sleeves - IDST
- Thermal transfer or direct thermal
- Two Windows based options available

Part number	Description
GK420T	ShrinkTech printer

TEST TAGS //

Part number	Colour	Dates	Part number	Colour	Dates
ATTR	Red	Jan-Mar	ATTO	Orange	6 months Jan-Jun
ATTG	Green	Apr-Jun	ATTW	White	6 months Jul-Dec
ATTB	Blue	Jul-Sep	ATTBK	Black	Yearly
ATTY	Yellow	Oct-Dec	ATTBUR	Burgundy	5 Yearly
ATTM	Mixed	12 months	ATTCUST	Custom Test Tags	

Cutomising Options

Get your test tags personalised at no extra cost. Tags can be customised to exacting requirements with your company logo included FREE OF CHARGE with minimum orders of 1000 of any one type.
For Customised Test Tags, please email us a copy of your company logo saved as an electronic file (JPG, TIFF or EPS) or supply a hard copy (letterhead or business card). Email to: csl@cuthbertstewart.co.nz

*All come in packs of 100, including a marker pen.

COMPUTERISED LABEL MARKING //



PROMARK (MK9 & MK10) PRINTER CONSUMABLES // MEDIA

Tape Cassettes – PPA

- Self-adhesive terminal block group marker suits all brands of terminal
- Standard widths 9mm
- Tape colour available: standard White and Yellow
- Can also be used for standard component marking
- Available custom printed

Part number	Colour	Width (mm)	Length (mm)
PPA09000SN4	Yellow	9mm	10M
PPA09000SN9	White	9mm	10M

CABLE LABELS/MARKING TAB FOR CABLE TIE MOUNT //

Applications

- Credit card format
- Cable tie mounting
- Sold per box
- Printer MK3TC Partex
- Made of Polyamide material
- Available custom printed

Part number	Colour	Length	Width	Tags per card	Cards per box
PFC09540KA4	Yellow	40mm	9.5mm	8	25
PFC09540KA9	White	40mm	9.5mm	8	25
PFC09580KA4	Yellow	80mm	9.5mm	4	25
PFC09580KA9	White	80mm	9.5mm	4	25



Use with the MK9 or MK10 printers on pages 53 and 54.



Use with the MK3TC printer on page 53.



PROFILE: CABLE AND WIRE MARKING //

PO and POZ Oval Profile Marking System

- PO Profile; Cadmium and silicon free material
- POZ Profile; Halogen free Zerex
- Built in spring action retains sleeve shape and excellent grip
- Efficient on-site marking with the MK9 Printer
- Available custom printed

Part number	Colour	Profile	Cable/wire	Length
PO-02000SN4	Yellow	1.7-2.2mm	0.5mm ²	5M
PO-02000SN9	White	1.7-2.2mm	0.5mm ²	5M
PO-03000SN4	Yellow	2.0-2.5mm	0.75mm ²	4M
PO-03000SN9	White	2.0-2.5mm	0.75mm ²	4M
PO-04000SN4	Yellow	2.2-2.8mm	1.0mm ²	4M
PO-04000SN9	White	2.2-2.8mm	1.0mm ²	4M
PO-05000SN4	Yellow	2.7-3.5mm	1.5mm ²	4M
PO-05000SN9	White	2.7-3.5mm	1.5mm ²	4M
PO-06000SN4	Yellow	3.2-4.0mm	1.5mm ²	3.5M
PO-06000SN9	White	3.2-4.0mm	1.5mm ²	3.5M
PO-07000SN4	Yellow	3.8-4.7mm	4.0mm ²	3.5M
PO-07000SN9	White	3.8-4.7mm	4.0mm ²	3.5M

POZ HALOGEN FREE

POZ02000SN4	Yellow	1.7-2.2mm	0.5mm ²	5M
POZ02000SN9	White	1.7-2.2mm	0.5mm ²	5M
POZ03000SN4	Yellow	2.0-2.5mm	0.75mm ²	4M
POZ03000SN9	White	2.0-2.5mm	0.75mm ²	4M
POZ04000SN4	Yellow	2.2-2.8mm	1.0mm ²	4M
POZ04000SN9	White	2.2-2.8mm	1.0mm ²	4M
POZ05000SN4	Yellow	2.7-3.5mm	1.5mm ²	4M
POZ05000SN9	White	2.7-3.5mm	1.5mm ²	4M
POZ06000SN4	Yellow	3.2-4.0mm	1.5mm ²	3.5M
POZ06000SN9	White	3.2-4.0mm	1.5mm ²	3.5M
POZ07000SN4	Yellow	3.8-4.7mm	4.0mm ²	3.5M
POZ07000SN9	White	3.8-4.7mm	4.0mm ²	3.5M

LABELS FOR INSERT //

PP Wire Marking System

- Flat marker profile for the ProMark printer
- Extremely versatile – can be used to mark a wide range of cables in conjunction with ParTex transparent holders
- PT/PT+/PTC holders and the PM sleeves
- Efficient on-site marking with the MK9 printer
- Available custom printed

Part number	Colour	Width	Use with	Length
PP-04600SN4	Yellow	4.6mm	PT+,PTC,PM-10	15M
PP-04600SN9	White	4.6mm	PT+,PTC,PM-10	15M
PP-09000SN4	Yellow	9.0mm	PM-20	18M
PP-09000SN9	White	9.0mm	PM-20	18M

WIRE LABELS/MARKING TAB FOR INSERT INTO PT & PT+ HOLDERS //

Applications

- Credit card format
- Sold per box
- Made of ABS material
- Printer MK3TC ParTex
- Markers can be inserted into PT/PT+/PTC or PMT holders
- Available custom printed

Part number	Colour	Length	Width	Tags per card	Cards per box
PFC04215KA4	Yellow	15mm	4.2mm	21	25
PFC04215KA9	White	15mm	4.2mm	21	25
PFC04221KA4	Yellow	21mm	4.2mm	21	25
PFC04221KA9	White	21mm	4.2mm	21	25
PFC04230KA9	White	30mm	4.2mm	16	25



Use with the MK9 or MK10 printers on pages 53 and 54.



Use with the MK9 or MK10 printers on pages 53 and 54.



WIRE MARKER CARRIERS //

PT and PT+

- Transparent sleeve with label pocket
- PT Holder has a flat pocket and the PT+ has an oval shaped pocket
- Design of label pocket keeps marking label protected and fixed in position

Part no.	Length	Suits Cable mm ²	Nominal O.D. mm	Qty per bag	Part no.	Length	Suits Cable mm ²	Nominal O.D. mm	Qty per bag
PT02015A	15mm	0.25-1.5	1.3-3.0	200	PT+10015A	15mm	1.5 - 4.0	2.5-5.0	200
PT02021A	21mm	0.25-1.5	1.3-3.0	200	PT+10021A	21mm	1.5 - 4.0	2.5-5.0	200
PT10015A	15mm	1.5-4.0	2.5-5.0	200	PT+10030A	30mm	1.5 - 4.0	2.5-5.0	200
PT10021A	21mm	1.5-4.0	2.5-5.0	200	PT+20015A	15mm	2.5 - 16	4.0-10	100
PT20015A	15mm	2.5-16	4.0-10	100	PT+20021A	21mm	2.5 - 16	4.0-10	100
PT30015A	15mm	16-75	8.0-16	100	PT+20030A	30mm	2.5 - 16	4.0-10	100
PT30021A	21mm	16-70	8.0-16	100	PT+30015A	15mm	16 - 70	8.0-16	50
PT+02015A	15mm	0.25-1.5	1.3-3.0	200	PT+30021A	21mm	16 - 70	8.0-16	50
PT+02021A	21mm	0.25 - 1.5	1.3-3.0	200	PT+30030A	30mm	16 - 70	8.0-16	50
PT+02030A	30mm	0.25 - 1.5	1.3-3.0	200					

WIRE MARKER CARRIERS //

PTC – POST TERMINATION

- Marker holder with label pocket for snap-on mounting cable & wire
- Flexible mounting of holder sleeve before or after connection of wire or cable
- Marker labels/tags can be produced from the ParTex MK9 PP profile or with the X-Card and printed on PFC sheets

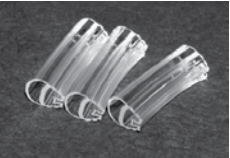
Part number	Colour	Length	Suits Profile	Part number	Colour	Length	Suits Profile
Suits Cable: 2.4 - 3.0mm Qty Per Bag: 200				Suits Cable: 4.0 - 5.0mm Qty Per Bag: 200			
PTC10015A4	Yellow	15mm	PFC & PP	PTC30015A4	Yellow	15mm	PFC & PP
PTC10015A9	White	15mm	PFC & PP	PTC30015A9	White	15mm	PFC & PP
PTC10021A4	Yellow	21mm	PFC & PP	PTC30021A4	Yellow	21mm	PFC & PP
PTC10021A9	White	21mm	PFC & PP	PTC30021A9	White	21mm	PFC & PP
PTC10030A4	Yellow	30mm	PFC & PP	PTC30030A4	Yellow	30mm	PFC & PP
PTC10030A9	White	30mm	PFC & PP	PTC30030A9	White	30mm	PFC & PP
Suits Cable: 3.0 - 4.0mm Qty Per Bag: 200				Suits Cable: 5.0 - 6.2mm Qty Per Bag: 100			
PTC20015A4	Yellow	15mm	PFC & PP	PTC40015A4	Yellow	15mm	PFC & PP
PTC20015A9	White	15mm	PFC & PP	PTC40015A9	White	15mm	PFC & PP
PTC20021A4	Yellow	21mm	PFC & PP	PTC40021A4	Yellow	21mm	PFC & PP
PTC20021A9	White	21mm	PFC & PP	PTC40021A9	White	21mm	PFC & PP
PTC20030A4	Yellow	30mm	PFC & PP	PTC40030A4	Yellow	30mm	PFC & PP
PTC20030A9	White	30mm	PFC & PP	PTC40030A9	White	30mm	PFC & PP

HEATSHRINK //

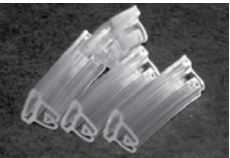
PHM Heatshrink Profile Wire Marking

- Heat shrink specially treated for print adherence for the ProMark printer
- 2:1 Ratio
- Halogen free material
- Available custom printed

Part number	Size	Reel Length	Part number	Size	Reel Length
PHZ20032BN9-R	3.2mm	100M	PHZ20048MN9	4.8mm	12M
PHZ20032MN9	3.2mm	15M	PHZ20064MN9	6.4mm	12M
PHZ20048BN9-R	4.8mm	100M			



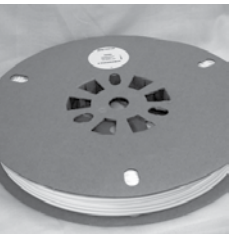
PT+ Carrier



PT Carrier



Use with the PFC and PP computerised markers on pages 56 and 61.



Use with the MK9 or MK10 printers on pages 53 and 54.



PARTEX PA TYPE //

Wire Marker - 3 Sizes from 0.2 to 16mm²

- Unique profile with spring action bellows covering a wide diameter range
- 3 sizes cover from 0.2 to 16mm²
- Excellent legibility
- Twist protection for secure combination marking
- International colour code options available
- Available on easy-to-use MD stalk applicator, CD pack or loose

PARTEX PA TYPE // BLUE STALKS

Wire Marker - On MD Stalks – Wire Size 1.5 - 4.0mm² White

- Suits wire sizes 1.5 - 4.0mm²
- Wire diameter 2.5 - 5.0mm OD
- Sold as 25 markers per stalk
- 10 stalks per bag
- 0-9
- A-Z

Part number	Description	Part number	Description
MD10003-90*	* = 0-9 or A-Z	MD10003292	MD 10/3 RED : 2
MD1000390+	MD 10/3 WHITE : +	MD10003303	MD 10/3 ORG : 3
MD1000390-	MD 10/3 WHITE : -	MD10003404	MD 10/3 YEL : 4
MD1000390/	MD 10/3 WHITE : /	MD10003595	MD 10/3 GRN : 5
MD1000390GND	MD 10/3 WHITE GND	MD10003696	MD 10/3 BLU : 6
MD10003090	MD 10/3 BLK : 0	MD10003797	MD 10/3 VIO : 7
MD10003191	MD 10/3 BRN : 1	MD10003808	MD 10/3 GRY : 8

PARTEX PA TYPE //

Accessories

- Empty MD10 applicator stalks sold in bags of 20
- PAV10M Metal installation tool sold as each

Part number	Description
MD10	Plastic blue empty applicator 1 = 1 bag of 20
PAV10M	PA 10 Installation Tool, Metal

MD STALK HOLDER //

Applications

- Holds up to 20 MD stalks
- For clipping onto belt

Part number	Description
MDH2010	MD-HOLDER Blue, for MD stalks



PARTEX PA TYPE //

Wire Marker Loose in Bags - Wire Size 0.2 - 1.5mm² WHITE

- Suits wire sizes 0.2 - 1.5mm²
- Wire diameter 1.3 - 3.0mm OD
- AV denotes loose in bags
- Each bag contains 200 pcs
- 0-9
- A-Z

Part number	Description	Part number	Description
PA02003AV90*	*= 0-9 or A-Z	PA02003AV191	PA 02/3 BRN : 1
PA02003AV90+	PA 02/3 WHITE : +	PA02003AV292	PA 02/3 RED : 2
PA02003AV90-	PA 02/3 WHITE : -	PA02003AV303	PA 02/3 WHITE : 3
PA02003AV90.	PA 02/3 WHITE : .	PA02003AV404	PA 02/3 ORG : 4
PA02003AV90/	PA 02/3 WHITE : /	PA02003AV595	PA 02/3 YEL : 5
PA02003AV90:	PA 02/3 WHITE : :	PA02003AV696	PA 02/3 GRN : 6
PA02003AV90=	PA 02/3 WHITE : =	PA02003AV797	PA 02/3 VIO : 7
PA02003AV90GRD	PA 02/3 WHITE : GND	PA02003AV808	PA 02/3 GRY : 8
PA02003AV090	PA 02/3 BLK : 0		

PARTEX PA TYPE //

Wire Marker on CD Cassette - Wire Size 0.2 - 1.5mm²

- Semi-cut pieces, 500 per CD
- Suits wire sizes 0.2 - 1.5mm²
- Wire diameter 1.3 - 3.0mm OD
- SV denotes Cassette
- 0-9
- A-Z

Part number	Description	Part number	Description
PA02003SV90*	* = 0-9 or A-Z	PA02003SV292	PA 02/3 RED : 2
PA02003SV90+	PA 02/3 WHITE : +	PA02003SV303	PA 02/3 WHITE : 3
PA02003SV90-	PA 02/3 WHITE : -	PA02003SV404	PA 02/3 ORG : 4
PA02003SV90.	PA 02/3 WHITE : .	PA02003SV595	PA 02/3 YEL : 5
PA02003SV90/	PA 02/3 WHITE : /	PA02003SV696	PA 02/3 GRN : 6
PA02003SV90GR	PA 02/3 WHITE : GND	PA02003SV797	PA 02/3 VIO : 7
PA02003SV090	PA 02/3 BLK : 0	PA02003SV808	PA 02/3 GRY : 8
PA02003SV191	PA 02/3 BRN : 1		

PARTEX PA TYPE //

Wire Marker Loose in Bags - Suits wire size 1.5 - 4.0mm²

- Suits wire sizes 1.5 - 4.0mm²
- Wire diameter 2.5 - 5.0mm OD
- AV denotes loose in bags
- Bag contains 200 pcs
- 0-9
- A-Z

Part number	Description	Part number	Description
PA10003AV90*	* = 0-9 or A-Z	PA10003AV191	PA 1/3 BRN : 1
PA10003AV90+	PA 1/3 WHITE : +	PA10003AV292	PA 1/3 RED : 2
PA10003AV90-	PA 1/3 WHITE : -	PA10003AV303	PA 1/3 ORG : 3
PA10003AV90GR	PA 1/3 WHITE : GND	PA10003AV404	PA 1/3 YEL : 4
PA10003AV90:	PA 1/3 WHITE : :	PA10003AV595	PA 1/3 GRN : 5
PA10003AV90=	PA 1/3 WHITE : =	PA10003AV696	PA 1/3 BLU : 6
PA10003AV90.	PA 1/3 WHITE : .	PA10003AV797	PA 1/3 VIO : 7
PA10003AV90/	PA 1/3 WHITE : /	PA10003AV808	PA 1/3 GRY : 8
PA10003AV090	PA 1/3 BLK : 0		





PARTEX PA TYPE //

Wire Marker on CD Cassette - Suits wire size 1.5 - 4.0mm²

- Semi-cut pieces, 500 per CD
- Suits wire sizes 1.5 - 4.0mm²
- Wire diameter 2.5 - 5.0mm OD

- SV denotes Cassette
- 0-9
- A-Z

Part number	Description
PA10003SV90*	* = 0-9 or A-Z
PA10003SV90+	PA 1/3 WHITE : +
PA10003SV90-	PA 1/3 WHITE : -
PA10003SV90.	PA 1/3 WHITE : .
PA10003SV90/	PA 1/3 WHITE : /
PA10003SV90GR	PA 1/3 WHITE : GND
PA10003SV090	PA 1/3 BLK : 0
PA10003SV191	PA 1/3 BRN : 1

Part number	Description
PA10003SV292	PA 1/3 RED : 2
PA10003SV303	PA 1/3 ORG : 3
PA10003SV404	PA 1/3 YEL : 4
PA10003SV595	PA 1/3 GRN : 5
PA10003SV696	PA 1/3 BLU : 6
PA10003SV797	PA 1/3 VIO : 7
PA10003SV808	PA 1/3 GRY : 8

PARTEX PA TYPE //

Wire Marker Loose in Bags - Suits wire size 2.5 - 16.0mm²

- Suits wire sizes 2.5 - 16.0mm²
- Wire diameter 4.0- 10.0mm OD
- AV denotes loose in bags

- Bag contains 100 pcs
- 0-9
- A-Z

Part number	Description
PA20004AV90*	* = 0-9 or A-Z
PA20004AV90+	PA 2/4 WHITE : +
PA20004AV90-	PA 2/4 WHITE : -
PA20004AV90.	PA 2/4 WHITE : .
PA20004AV90/	PA 2/4 WHITE : /
PA20004AV90:	PA 2/4 WHITE : :
PA20004AV90=	PA 2/4 WHITE : =
PA20004AV90GR	PA 2/4 WHITE : GND
PA20004AV090	PA 2/4 BLK : 0

Part number	Description
PA20004AV191	PA 2/4 BRN : 1
PA20004AV292	PA 2/4 RED : 2
PA20004AV303	PA 2/4 ORG : 3
PA20004AV404	PA 2/4 YEL : 4
PA20004AV595	PA 2/4 GRN : 5
PA20004AV696	PA 2/4 BLU : 6
PA20004AV797	PA 2/4 VIO : 7
PA20004AV808	PA 2/4 GRY : 8

PARTEX PA TYPE //

Wire Marker on CD Cassette - Suits wire size 2.5 - 16mm²

- Semi-cut pieces, 250 per CD
- Suits wire sizes 2.5 - 16.0mm²
- Wire diameter 4.0 - 10.0mm OD

- SV denotes Cassette
- 0-9
- A-Z

Part number	Description
PA20004SV90*	* = 0-9 or A-Z
PA20004SV90+	PA 2/4 WHITE : +
PA20004SV90-	PA 2/4 WHITE :
PA20004SV90.	PA 2/4 WHITE :
PA20004SV90/	PA 2/4 WHITE : /
PA20004SV90GR	PA 2/4 WHITE : GND
PA20004SV090	PA 2/4 BLK : 0
PA20004SV191	PA 2/4 BRN : 1

Part number	Description
PA20004SV292	PA 2/4 RED : 2
PA20004SV303	PA 2/4 ORG : 3
PA20004SV404	PA 2/4 YEL : 4
PA20004SV595	PA 2/4 GRN : 5
PA20004SV696	PA 2/4 BLU : 6
PA20004SV797	PA 2/4 VIO : 7
PA20004SV808	PA 2/4 GRY : 8

PARTEX POK CABLE MARKER //

Applications

- Combination marker for cable and wire marking
- One size for all diameters
- Twist protected
- Highly durable and excellent legibility
- Temperature range -35°C to 60°C
- Can be installed direct onto the cable or a PARTEX carrier, and fastened with cable ties
- Standard colour yellow. Also available in international colour coding
- PVC material, excellent resistance to sea water, detergents (10% aqueous), fuel oils, white and industrial spirit



POK TYPE WIRE/CABLE MARKER //

Wire Marker on CD Cassette - Suits wire size 2.5 - 16.0mm²

- Semi-cut pieces, 500 per CD
- Suits wire sizes 2.5 - 16.0mm²
- Wire diameter 4.0 - 10.0mm OD

- SV denotes Cassette
- 0-9
- A-Z

Part number	Description
POK10004SV40*	* = 0-9 or A-Z
POK10004SV40:	PA 10/4 YEL : :
POK10004SV40=	PA 10/4 YEL : =
POK10004SV40	PA 10/4 YEL : GND
POK10004SV40+	PA 10/4 YEL : +
POK10004SV40-	PA 10/4 YEL : -
POK10004SV40.	PA 10/4 YEL : .
POK10004SV40/	PA 10/4 YEL : /
PA10004SV090	PA 10/4 BLK : 0

Part number	Description
PA10004SV101	PA 10/4 BRN : 1
PA10004SV292	PA 10/4 RED : 2
PA10004SV303	PA 10/4 ORG : 3
PA10004SV404	PA 10/4 YEL : 4
PA10004SV595	PA 10/4 GRN : 5
PA10004SV696	PA 10/4 BLU : 6
PA10004SV797	PA 10/4 VIO : 7
PA10004SV808	PA 10/4 GRY : 8

PARTEX CARRIERS //

For the POK Markers

- Holders for PK, POZ, PO68 Profile and POK markers
- No tools needed for installation
- PKH has four attachment points which allow length adaption
- PKH permits marking before cable laying

Part number	Description
PKH070POL	PKH 10 character 70mm long
PKH110POL	PKH 20 character 110mm long
POH07060AA0	POH 7 character 60 mm long
POH12082AA0	POK 12 character 82mm long
POH18110AA0	POK 18 character 110mm long
POH30152AA0	POK 30 character 152mm long

PROFILE: CABLE AND WIRE MARKING //

PO-068 Profile Marking System

- PO-068 Profile; for POH/PKH Carrier Strips

Part number	Colour	Width (mm)	Use With	Length
PO-068TWSN4	Yellow	11 mm	POH/PKH Carrier Strips	4.5M

LABELS FOR COMPONENT MARKING ADHESIVE LABELS //

Applications

- Credit card format
- Self-adhesive label
- Sold per box
- Printer MK3TC Partex
- Made of Polyester material
- Available custom printed

Part number	Colour	Length	Width	Tags per card	Cards per box
PFC07014KA9	White	14mm	7mm	25	25
PFC12726KA9	White	12.7mm	25.4mm	9	25
PFC45080KA9	White	45mm	80mm	1	25



Use with the MK9 or MK10 printers on pages 53 and 54.



Use with the MK3TC printer on page 53.



PARTEX STAINLESS STEEL MARKERS //

Applications

- Semi-cut pieces, 500 per CD
- Suits wire sizes 2.5 - 16.0mm²
- Wire diameter 4.0 - 10.0mm OD
- SV denotes Cassette
- 0-9
- A-Z

Part number	Description
PKS10006PP*	* = 0-9 or A-Z
PKS10006PP-	Stainless Steel Marker -
PKS10006PP/	Stainless Steel Marker /
PKS10006PPBLA	Stainless Steel Marker BLANK

PARTEX STAINLESS STEEL MARKERS //

Carrier Strips

- All carriers are 316 Grade Stainless Steel and come in bags of 50
- Carrier strips have 2 raised bridges for mounting cables, ties or screws

Part number	Description
PKS10040FQ	Carrier 47mm printable area, 6 characters
PKS10060FQ	Carrier 64mm printable area, 9 characters
PKS10080FQH	Carrier 84mm printable area, 13 characters
PKS10120FQH	Carrier 124mm printable area, 20 characters

CSL STAINLESS STEEL CABLE LABELS CUSTOM PRINTED //

Part number	Description
316SSCP	80mm s/steel cable label, custom printed
PKS10040FQSCP	47mm s/steel cable label (s/s cable tie only) custom printed
PKS10080FQSCP	87mm s/steel cable label (s/s cable tie only) custom printed
PKS10080FQHCP	87mm s/steel cable label (holes for fixing) custom printed

STAINLESS STEEL CABLE TIES //

Applications

- Available on request
- Sold as singles (200mm x 4.6mm ball lock type)



For use on the PrintJet Pro Printer (page 54)



INLAY TAGS FOR USE IN WIRE SLEEVES/CARRIERS //

Part number	Type	Length (mm)	Width (mm)	Qty per card	Qty per pack
1718411044	TM-I 12 card of 64	12	4	64	320
1609981044	TM-I 15 card of 80	15	4	80	400
1718431044	TM-I 18 card of 64	18	4	64	320
1680411044	TM-I 20 card of 80	20	4	80	400
1876390000	TM -I 30 card of 60	30	4	60	300

SLIM FIX V2 (HALOGEN FREE) // Narrow Profile for high density wiring post termination

Part number	Type	Printing Area (mm)	Cond. OD (mm)	Wire Size (mm ²)	Qty per pack
21mm Length					
1918630000	SF 1/21 card of 80	21x3.2	1.7-2.1	0.5-0.75	400
1918690000	SF 2/21 card of 80	21x3.6	2.2-2.9	0.75-1.5	400
1918910000	SF 3/21 card of 64	21x4.6	3.0-3.7	1.5-2.5	320
1919080000	SF 4/21 card of 48	21x5.7	3.6-6.0	2.5-4.0	192
1919020000	SF 4.5/21 card of 24	21x7.4	4.1-4.9	4.0-6.0	96
1919140000	SF 5/21 card of 32	21x7.4	4.8-7.4	6.0-10.0	160
1919190000	SF 6/21 card of 32	21x8.4	5.8-7.8	10.0-16.0	160
60mm Length (ATTACH USING CABLE TIES)					
1860120000	SFX 11/60	11x44	from 7.00	from 16.0	60
1860150000	SFX 11/60 – Yellow	11x44	from 7.00	from 16.0	60

SLIM FIX CLIP (ALL HALOGEN FREE) //

Part number	Type	Printing Area (mm)	Cond. OD (mm)	Wire Size (mm ²)	Qty per pack
21mm Length					
1813190000	SFC 0/21	21x4.1	1.5-2.5	0.5-1.0	200
1779080001	SFC 1/21	21x4.1	2.0-3.5	0.75-2.5	200
1805810000	SFC 2/21	21x5.8	2.5-6.0	2.5-4.0	120

TERMINAL MARKERS -BLANK/MULTICARD // Refer page 64 for pre-printed Dekafix cards of 50.

Part number	Type	Width (mm)	Length (mm)	Qty per card	Qty per pack
For the W & Z Series Terminals					
1640740000	WS 8/5 MC	5.0	8.0	144	720
1635000000	WS 10/5 MC	5.0	10.0	144	720
1609860000	WS 12/5 MC	5.0	12.0	144	720
1609880000	WS 15/5 MC	5.0	15	96	480
1609900000	WS 12/6 MC	6.0	12	120	600
1609920000	WS 12/6.5 MC	6.5	12	108	540

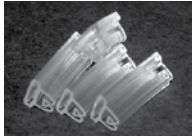
ALL above product are white unless otherwise specified.

SWITCHMARK SM SERIES //

Part number	Type	Length (mm)	Quantity
For control or signalling devices. The tags fit into the SM accessory holder or there is an adhesive backed version.			
SM - BLANK – WHITE			
1699820000	SM 27/8 MC	8.0	80
1699840000	SM 27 /12.5 MC	12.5	80
1699860000	SM 27/18 MC	18	80
1773220000	SM 27/27 MC	27	60
SM - BLANK - SELF-ADHESIVE – WHITE			
1699880000	SM 27/12.5 K MC	12.5	80
1707270000	SM 27/18 K MC	18.0	80
1783000000	SM 27/27 K MC	27.0	60
SM - ACCESSORY - HOLDER – BLACK		Length (mm)	Width (mm)
1716640000	SM-H 27/12.5	42	27
1716630000	SM-H-27/18	48	27



Marking format



PT Carrier
See page 57 for carrier details



Slimfix



Switchmark



Blank self-adhesive



DEK Horizontal



ESG Tags For Marking of Control Gear Suppliers //

Part number (Box 200)	Manufacturer	Size
1136810000	Festo	15mm x 6mm
1736181044	Siemens / Sirius	20mm x 7mm
1897570000	Beckhoff/Wago I/O Modules	11mm x 8mm
1674740000	Telemecanique / Schneider	17mm x 8mm
1755340000	ABB-Stotz/AEG	17mm x 8mm
1609940000	Siemens + Moller	20mm x 9mm
1856700000	Allen Bradley / Festo Mt	17mm x 10mm

MULTICARD MARKERS AND CARRIERS //

MULTICARD

For use on Weidmüller Jetprint – can also be manually marked using Weidmüller permanent marker pen.

Also used for custom printing.

Part number	Type (Blank)	Description	Quantity
1755270000	DEK 5/3.5	(for 3.5mm wide terminals)	100 per card
1609801044	DEK 5/5	(for 5mm wide terminals)	200 per card
1609820000	DEK 5/6	(for 6mm wide terminals)	200 per card
1609840000	DEK 5/6.5	(for 6.5mm wide terminals)	180 per card
05084000		Marker Pen	

Part number	Type (Blank)	Description	Quantity
GROUP MARKING CARRIER – Maximum working temperature 100°C.			
02924600	SCHT 5	Group Marking Carrier (width 19.5mm)	Sold individually
16077100	ESO 5	Paper Marking Strip	60 per sheet
02940000	STR 5	Transparent Cover	Sold individually
16319300	SCHT 5 S	Group Marking Carrier (slim 9.5mm width)	Sold individually
16319200	ESO 5 S	Paper Marking Strip (140 labels per sheet)	140 per sheet
16319400	STR 5 S F.SCHT 5	Transparent Cover	Sold individually

DEKAFIX //

Checklist

- What is the THICKNESS of the terminal to be marked?
i.e. 5mm, 6mm or 6.5mm.
- Is the TERMINAL RAIL vertical or horizontal?
- What number sequence do you require? e.g 1-50, 51-100, 101-150 etc.

Part number – Terminal width – Vertical			CARDS OF 50 Numbering
5mm	6mm	6.5mm	
04735600	04687600	04682600	1-50
04735605	04687605	04682605	51-100
04735610	04687610	4682610	101-150
04735615	04687615	04682615	151-200
04735620	04687620	04682620	201-250
04735625	04687625	04682625	251-300
04735630	04687630	04682630	301-350
04735635	04687635	04682635	351-400
04735640	04687640	04682640	401-450
04735645	04687645	04682645	451-500
Part number – Terminal width – Horizontal			CARDS OF 50 Numbering
5mm	6mm	6.5mm	
04734600	04686600	04681600	1-50
04734605	04686605	04681605	51-100
04734610	04686610	04681610	101-150
04734615	04686615	04681615	151-200
04734620	04686620	4681620	201-250
04734625	04686625	04681625	251-300
04734630	04686630	04681630	301-350
04734635	04686635	04681635	351-400
04734640	04686640	04681640	401-450
04734645	04686645	04681645	451-500



SECTION 5

POWER
SUPPLIES//



3-phase,
240W, 10A, 22-28 Vdc



CP DM 10

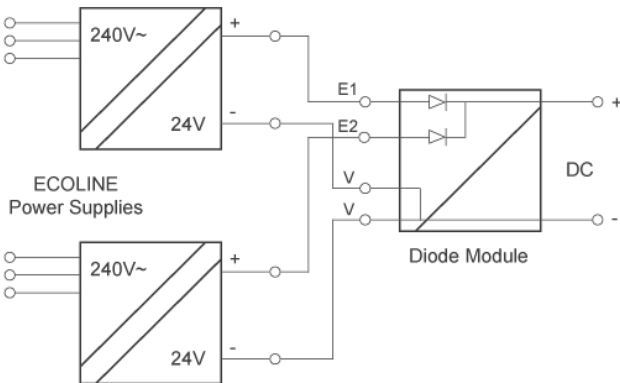
PROECO 1 & 3 PHASE 72-960W //

Features					
• Single and three-phase switch-mode power supply units		• Remote monitoring via integrated status relay			
• Slim design		• Tricoloured LED indicators for simple error detection			
• Large temperature range from -25 °C to 70 °C		• Advanced visual warning at 90 % rated output current			
• The output voltage can be precisely adjusted via the multi turn potentiometer on the front		• International approvals: CE; TÜV (EN/IEC 60950-1); cULus, RCM			

Part number	Max. Output Power	Output Current	Output Voltage	Input Voltage	Dimensions (LxWxHmm)
1-phase					
1469470000	72W	3 A	22-28 Vdc	85-264Vac/80-370Vdc	100 x 34 x 125
1469480000	120W	5 A	22-28 Vdc	85-264Vac/80-370Vdc	100 x 40 x 125
1469490000	240W	10 A	22-28 Vdc	85-264Vac/80-370Vdc	100 x 60 x 125
1469510000	480W	20 A	22-28 Vdc	85-264Vac/80-370Vdc	120 x 100 x 125
3-phase					
1469540000	240W	10 A	22-28 Vdc	340-575Vac/450-870Vac	100 x 60 x 125
1469550000	480W	20 A	22-28 Vdc	340-575Vac/450-870Vac	120 x 100 x 125
1469560000	960W	40 A	22-28 Vdc	340-575Vac/450-870Vac	120 x 160 x 125

ECO LINE DIODE MODULES //

Features					
• Built-in ventilation channel for side-by-side stacking and no de-rating		• Robust metal housing			
• Local and International Approvals: C-Tick, CE, UL, CSA		• Mounts on TS35 DIN rail			
• For redundancy or increased load sharing					
Part number	Type	Output Voltage	Output Current	Input Voltage	Dimensions (LxWxHmm)
1-phase					
8710620000	CP DM 10	Vin-0.5 typical	0-20A max or 10A redundancy mode	40Vdcmax.	125 x 55.5 x 100
8768650000	CP DM 20	Vin-0.5 typical	0-40A max or 20A redundancy mode	40Vdcmax.	142 x 55.5 x 100



PRO-M ADVANCE FEATURE SWITCHMODE //

Features					
• The new PRO-M range of switchmode power supplies have a space saving of up to 50% and no gap required between multiple units. PRO-M will squeeze into the tightest of switchboards or machines		• Power increasing with up to 5 modules is accomplished without the need for external diode modules			
• Extended temperature range of -25°C to +70°C extends the number of application possibilities		• A power boost up to 120% is provided for up to 2 minutes and with overall efficiencies of up to 90%, the new PRO-M series delivers in all areas			

Part number	Max. Output Power	Output Current	Output Voltage	Input Voltage	Dimensions (LxWxHmm)
1-phase					
8951330000	70 W	3 A	24 V (22.5 to 29.5 V)	85-264Vac/80-370Vdc	125 x 33 x 130
8951340000	120 W	5 A	24 V (22.5 to 29.5 V)	85-264Vac/80-370Vdc	125 x 40 x 130
8951350000	180 W	7.5 A	24 V (22.5 to 29.5 V)	85-264Vac/80-370Vdc	125 x 50 x 130
8951360000	250 W	10 A	24 V (22.5 to 29.5 V)	85-264Vac/80-370Vdc	150 x 60 x 130
8951370000	500 W	20 A	24 V (22.5 to 29.5 V)	85-264Vac/80-370Vdc	150 x 115 x 130
8951380000	1000 W	40 A	24 V (22.5 to 29.5 V)	85-264Vac/80-370Vdc	150 x 140 x 130
3-phase					
8951390000	120 W	5 A	24 V (22.5 to 29.5 V)	320-575Vac/450-800Vdc	125 x 40 x 130
8951400000	250 W	10 A	24 V (22.5 to 29.5 V)	320-575Vac/450-800Vdc	150 x 60 x 130
8951410000	500 W	20 A	24 V (22.5 to 29.5 V)	320-575Vac/450-800Vdc	150 x 115 x 130
8951420000	1000 W	40 A	24 V (22.5 to 29.5 V)	320-575Vac/450-800Vdc	150 x 140 x 130

INSTAPOWERS 1-PHASE 25-48W // ADJUSTABLE OUTPUT

Features					
The new INSTApower single phase 25-48W power supplies provide the answer to a wide range of power supply needs. Just four different modules provide for all output voltages from 4 to 55Vdc. An easily accessible trimpot is provided via an access port to enable wide adjustment to meet your requirements. Fully protected against overload INSTApower 48W provides up to 50% over current drive to start your load.		• Wide range of adjustment and universal AC/DC inputs			
		• Suitable for use as a DC/DC Converter			
		• Ultra-compact only 70mm wide			
		• Mounts on standard TS35 DIN rail			
		• Local and International Approvals: C-Tick, CE, UL, CSA			

Part number	Max. Output Power	Output Current	Output Voltage	Input Voltage	Dimensions (LxWxHmm)
8754960000	25 W	5 A	4-8 Vdc	85-264Vac/110-370Vdc	62.5 x 70.0 x 90.5
8754970000	48 W	4 A	9-15 Vdc	85-264Vac/110-370Vdc	62.5 x 70.0 x 90.5
8739140000	48 W	2 A	15-28 Vdc	85-264Vac/110-370Vdc	62.5 x 70.0 x 90.5
8879230000	48 W	1 A	46-55 Vdc	85-264Vac/110-370Vdc	62.5 x 70.0 x 90.5

INSTAPOWERS 1-PHASE 24W //

Features					
Devices such as relays, contactors, solenoids and motors all require an initial starting current many times their normal level. The compact INSTApower range has the capacity to supply the initial inrush current to start inductive loads and can actually provide 3 times their rated output for a short duration.		• Thermal overload protection and automatic restart			
		• High efficiency and universal inputs			
		• Compact design only 52mm wide			
		• Mounts on standard TS35 DIN rail			
		• Suitable for use as a DC/DC converter			
		• Local and International Approvals: C-Tick, CE, UL, CSA			

Part number	Max. Output Power	Output Current	Output Voltage	Input Voltage	Dimensions (LxWxHmm)
9928890005	24 W	2 A	5 Vdc	85-265Vac/120-300Vdc	62.5 x 52 x 90.5
9928890012	24 W	1.5 A	12 Vdc	85-265Vac/120-300Vdc	62.5 x 52 x 90.5
9928890015	24 W	1.5 A	15 Vdc	85-265Vac/120-300Vdc	62.5 x 52 x 90.5
9928890024	24 W	1 A	24 Vdc	85-265Vac/120-300Vdc	62.5 x 52 x 90.5
9928890028	24 W	1 A	28 Vdc	85-265Vac/120-300Vdc	62.5 x 52 x 90.5



1-phase,
70W, 3A, 24 Vdc



1-phase
48W, 2A, 15-28Vdc



1-phase
24W, 1A, 24Vdc

CAPACITANCE MODULE //

The capacitance module ensures a secure power supply even at peak loads (for example when the motor starts) and the specific triggering of circuit breakers. It can be installed in addition to the power supply at any time.

Part number	Type
1222240000	CP M CAP

WAVEGUARD ELECTRONIC FUSING SYSTEM //

Due to their technical characteristics, switch mode power supplies provide very little or no dynamic output current. During overload situations these devices simply limit the current and shut down the voltage supply which can also affect other connected circuits. WAVEguard incorporates a quick reaction time and immediately shuts off the faulty circuit leaving all other circuits fed by the power supply intact.

Resetting: Besides the manual reset, it is also possible to perform a remote reset after the error is remedied. A reset contact can be connected to a voltage pulse and the load circuit is then re-enabled when the pulse edge falls.

Note: A cyclical auto-reset is not permitted.

Signalling/display: The triggering of an electronic fuse is indicated on an LED directly at the device. Remote display is also possible by means of a voltage-free NC contact. This speeds up trouble shooting procedures and reduces outage times and repair costs.

- Complements standard Weidmüller power supply range
- Discrimination via variable and set versions from 0.5A to 8A
- Proper functioning fuse protection for various load circuits of a switch-mode power supply
- Mounts on standard TS35 DIN rail
- Available with screw or tension clamp plug/socket terminals
- Local and International Approvals: C-Tick, CE, UL, CSA

UNINTERRUPTABLE POWER SUPPLIES | DC-UPS AND BATTERY MODULES

Backup Power Supplies

For a highly reliable DC-UPS function, the Weidmüller system will provide years of service life ensuring full uptime and stability of your 24V DC control system. Interruptions can be bridged up to 30 minutes at 40A or 30 hours at 1A with a choice of 10/20A model or 40A model depending on system size. Select from the 5 battery sizes depending on holdup time you require for systems current consumption.

- Hold up time of 40A for 30mins or 1A for 30 hours
- Extended battery life with temperature controlled charging
- 1 digital input for Interlock
- 3 relay outputs +3 digital—Fault, Buffering, Charging (reversible)
- LED indication of status
- Hold up times from 0.5 to 45 mins - ∞
- 25 to +70°C operation
- 1.3, 3.4, 7.2, 12, and 17Ah Battery modules

Part number	Type	Mounting
1370050010	10A / 10A	DIN rail
1370040010	40A	DIN rail
1406930000	1.3Ah	DIN rail or wall-mounted
1251070000	3.4Ah	DIN rail or wall-mounted
1251080000	7.2Ah	wall-mounted
1251090000	12Ah	wall-mounted
1251090000	17Ah	wall-mounted

PS5R Switching Power Supplies

Universal Input, DIN rail or surface mount

Output Voltage	Rating	Standard	Slimline
24VDC O/P	7.5W / 0.3A	PS5R - A24	
	15W / 0.6A	PS5R - B24	PS5R - SB24
	30W / 1.3A	PS5R - C24	PS5R - SC24
	50W / 2.1A	PS5R - D24	
	60W / 2.5A		PS5R - SD24
	75W / 3.1A	PS5R - Q24	
	90W / 3.75A		PS5R - SE24
	100W / 4.2A	PS5R - E24	
	120W / 5A	PS5R - F24	PS5R - SF24
	240W / 10A	PS5R - G24	PS5R - SG24
12VDC O/P	7.5W / 0.6A	PS5R - A12	
	15W / 1.2A	PS5R - B12	PS5R - SB12
	30W / 2.5A	PS5R - C12	PS5R - SC12
5VDC O/P	7.5W / 1.5A	PS5R - A05	
	15W / 2.5A	PS5R - B05	PS5R - SB05

Mounting Clips

Description	Part Number
Panel Mounting Bracket for PS5R-SB	PS9Z - 5R1B
Panel Mounting Bracket for PS5R-SB (flat side mnt)	PS9Z - 5R2B
Panel Mounting Bracket for PS5R-SC & PS5R-SD	PS9Z - 5R1C
Panel Mounting Bracket for PS5R-SE	PS9Z - 5R1E
Panel Mounting Bracket for PS5R-SF & PS5R-SG	PS9Z - 5R1G



CM M CAP

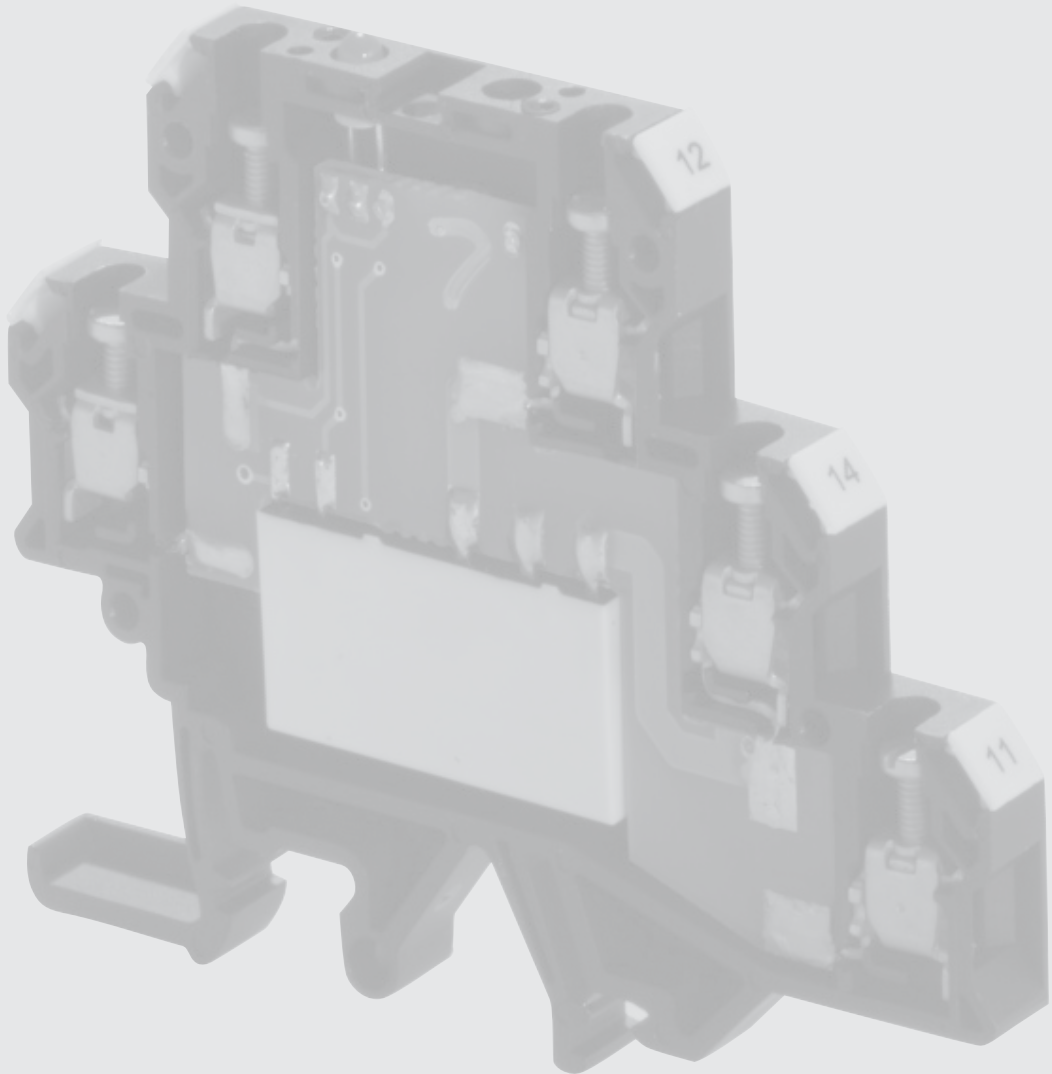


WGS



40A





SECTION 6



RELAYS//

WEIDMÜLLER GENERAL PURPOSE RELAYS //

WEIDMÜLLER DRL SERIES //

Omron LY Series			
Part number	Description – coil voltage	Part number	Description – coil voltage
2 Change Over (2CO):250AC - 10A contacts - LED Indication		4 Change Over (4CO):250AC - 10A contacts - LED Indication	
1133510000	12 Vdc	1133620000	12 Vdc
1133520000	24 Vdc	1133630000	24 Vdc
1133530000	48 Vdc	1133640000	48 Vdc
1133870000	24 Vac	1133650000	110 Vdc
1133880000	115 Vac	1133940000	24 Vac
1133890000	240 Vac	1133950000	115 Vac
		1133960000	240 Vac
DRL Sockets for 2CO relay		DRL Sockets for 4CO relay	
1132830000	SLD 2CO	1132850000	SLD 4CO

WEIDMÜLLER DRM SERIES //

Part number	Description - coil voltage	Part number	Description - coil voltage
Equivalent to Omron MY series			
2 Change Over (2CO):DC - 10A contacts		4 Change Over (4CO):DC - 5A contacts	
7760056050	12 Vdc Standard	7760056078	12 Vdc Standard
7760056051	24 Vdc Standard	7760056079	24 Vdc Standard
7760056077	24 Vdc with LED & Supressor diode	7760056105	24 Vdc with LED & Supressor diode
7760056060	24 Vdc with LED	7760056089	24 Vdc with LED
7760056052	48 Vdc Standard	7760056080	48 Vdc Standard
7760056062	110 Vdc with LED	7760056090	110 Vdc with LED
2 Change Over (2CO):AC 10A contacts		4 Change Over (4CO):AC - 5A contacts	
7760056055	24 Vac Standard	7760056083	24 Vac Standard
7760056064	24 Vac with LED	7760056092	24 Vac with LED
7760056058	48 Vac Standard	7760056086	48 Vac Standard
7760056066	110Vac with LED	7760056094	110Vac with LED
7760056067	240 Vac with LED	7760056095	240 Vac with LED
DRM Sockets for 2CO relay		DRM Sockets for 4CO relay	
7760056106	FS2CO 300V -12 amp	7760056107	FS4CO 300V -10 amp
Accessories			
7760056108	DRM Metal clip		

WEIDMÜLLER DRR SERIES //

Octal (8 Pin) & 11 Pin Power Relays equivalent to Omron MK Series			
Part number	Description – coil voltage	Part number	Description – coil voltage
2 Change Over (2CO):250 Vac - 10A contacts		3 Change Over (3CO):250 Vac - 10A contacts	
1133360000	12 Vdc	1133410000	12 Vdc
1133370000	24 Vdc	1133420000	24 Vdc
1133380000	48 Vdc	1133430000	48 Vdc
1133390000	110 Vdc	1133440000	110 Vdc
1133760000	24 Vac	1133810000	24 Vac
1133780000	115 Vac	1133820000	115 Vac
1133800000	230 Vac	1133830000	230 Vac
DRR Sockets for 2CO relay (8 Pin)		DRR Sockets for 3CO relay (11Pin)	
1132810000	SRD ECO 2CO	1132820000	SRD ECO 3CO

ACCESSORIES //

Part number	Description
1134160000	DRR Socket Metal clip



DRM 2CO socket



DRM 2CO



DRM 4CO socket



DRM 4CO



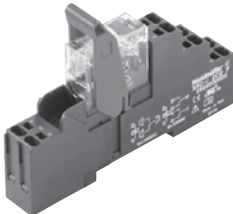
DRM metal clip



RC1 1CO 24 Vdc Kit



Relay 230 Vac
Without Test Button



RC1 2CO 24 Vac Kit



Relay 24 Vdc
With Test Button

RCI 1CO PRE-ASSEMBLED KITS //

Part number	Part number	Type – Coil Voltage	Coil Current	Connection Type
With Test Button	Without Test Button			
8881580000	8871000000	24 Vdc KIT	16.7 mA	Screw
8897190000	8897110000	24 Vdc KIT	16.7 mA	Push In
8881590000	8871010000	24 Vac KIT	31.6 mA	Screw
8897200000	8897120000	24 Vac KIT	31.6 mA	Push In
8897060000	8897090000	115 Vac KIT	6.6 mA	Screw
8897210000	8897130000	115 Vac KIT	6.6 mA	Push In
8881600000	8871020000	230 Vac KIT	3.2 mA	Screw
8897220000	8897140000	230 Vac KIT	3.2 mA	Push In

INDIVIDUAL PARTS & ACCESSORIES //

Part number	Part number	Type – Coil Voltage	Coil Current
With Test Button	Without Test Button		
8870250000	8870100000	Relay 24 Vdc	16.7 mA
8870280000	8870130000	Relay 24 Vac	31.6 mA
8870290000	8870140000	Relay 115 Vac	6.6 mA
8870300000	8870150000	Relay 230 Vac	3.2 mA
	8869490000	Base with Screw Connection	
	8869500000	Base with Push In Connection	
	8869510000	Plastic Retaining Clip	
	8869600000	LED module 24 Vdc	
	8869630000	LED module 24 Vac	
	8869650000	LED module 120 / 230 Vac	
	8870840000	Plug-in Cross Connection 2 Way	

RCI 2CO PRE-ASSEMBLED KITS //

Part number	Part number	Type – Coil Voltage	Coil Current	Connection Type
With Test Button	Without Test Button			
8881610000	8871030000	24 Vdc KIT	16.7 mA	Screw
8897230000	8897150000	24 Vdc KIT	16.7 mA	Push In
8881620000	8871040000	24 Vac KIT	31.6 mA	Screw
8897240000	8897160000	24 Vac KIT	31.6 mA	Push In
8897080000	8897100000	115 Vac KIT	6.6 mA	Screw
8897250000	8897170000	115 Vac KIT	6.6 mA	Push In
8881630000	8871050000	230 Vac KIT	3.2 mA	Screw
8897260000	8897180000	230 Vac KIT	3.2 mA	Push In

INDIVIDUAL PARTS & ACCESSORIES //

Part number	Part number	Type – Coil Voltage	Coil Current
With Test Button	Without Test Button		
8870320000	8870180000	Relay 24 Vdc	16.7 mA
8870350000	8870210000	Relay 24 Vac	31.6 mA
8870360000	8870220000	Relay 115 Vac	6.6 mA
8870370000	8870230000	Relay 230 Vac	3.2 mA
	8869490000	Base with Screw Connection	
	8869500000	Base with Push In Connection	
	8869510000	Plastic Retaining Clip	
	8869600000	LED module 24 Vdc	
	8869630000	LED module 24 Vac	
	8869650000	LED module 120 / 230 Vac	
	8870840000	Plug-in Cross Connection 2 Way	

SLIMLINE RELAYS – MICROSERIES MRS/MRZ //

- Max switch voltage 250 Vac
- Only 6.1mm wide

Part number		Type	Rated Coil Voltage	Max. Switch Voltage
VERSION DC (T/C = Tension Clamp)			Resistive	
8556080000	MRS Screw	MRS/MRZ 5 Vdc 1 CO	5 Vdc ±20%	250 Vac 6A /30 Vdc 5 A
8556150000	MRZ T/C			
8556070000	MRS Screw	MRS/MRZ 12 Vdc 1 CO	12 Vdc ±20%	250 Vac 6A /30 Vdc 5 A
8556140000	MRZ T/C			
8533640000	MRS Screw	MRS/MRZ 24 Vdc 1 CO	24 Vdc ±20%	250 Vac 6A /30 Vdc 5 A
8533660000	MRZ T/C			
VERSION AC/DC				
8556050000	MRS Screw	MRS/MRZ 24 V AC/ DC 1 CO	24 V AC/DC ±10%	250 Vac 6A /30 Vdc 5 A
8556120000	MRZ T/C			
8556030000	MRS Screw	MRS/MRZ 120 V AC/ DC 1 CO	120 V AC/DC ±10% - 15%	250 Vac 6A /30 Vdc 5 A
8556100000	MRZ T/C			
VERSION AC				
8556020000	MRS Screw	MRS/MRZ 230 Vac 1 CO	230 Vac ±10%	250 Vac 6A /30 Vdc 5 A
8556090000	MRZ T/C			

ACCESSORIES //

CROSS CONNECTS FOR MRS & MRZ		CROSS CONNECTS FOR MRS & MRZ	
10 way	Colour	41 way	Colour
1758260000	Yellow	1758270000	Yellow
1794040000	Red	1794070000	Red
1794060000	Black		
1794050000	Blue		

MC5R SINGLE CHANNEL RELAYS //

- Width 6mm

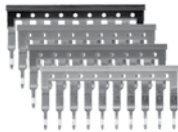
Part number	Rated Coil Voltage	Maximum Switch Voltage
CHANGE OVER NO/NC OUTPUT		Resistive
7901610000	12 Vdc	250 Vac 6A /30 Vdc 5 A
7901620000	24 Vdc	250 Vac 6A /30 Vdc 5 A
7901630000	48 Vdc	250 Vac 6A /30 Vdc 5 A
7901520000	220/240 Vac	250 Vac 6A /30 Vdc 5 A
7901500000	110/120 Vac	250 Vac 6A /30 Vdc 5 A
DUAL VOLTAGE, NORMALLY OPEN CONTACT (GOLD FLASH)		
7901540000	12 Vdc or 24 Vdc	250 Vac 4A /30 Vdc 4 A
7901550000	24 Vdc or 48 Vdc	250 Vac 4A /30 Vdc 4 A
7901560000	12 V AC/DC or 24 V AC/DC	250 Vac 4A /30 Vdc 4 A
7901570000	24 V AC/DC or 48 V AC/DC	250 Vac 4A /30 Vdc 4 A
LOGIC INPUT NORMALLY OPEN CONTACT		
7901580000	5-15V Logic (24 Vdc auxilliary)	250 Vac 4A /30 Vdc 4 A
7901590000	5-15V Logic (24 V AC/DC auxilliary)	250 Vac 4A /30 Vdc 4 A

ACCESSORIES //

Part number	Description
C302382	End Plate (AP)
CROSS CONNECTION COMBS	
16332800	VQB1.5/50BL Blue 50 way
16332900	VQB1.5/50RT Red 50 way
1635120000	VQB1.5/50SW Black 50 way



MRS/MRZ 24 Vdc 1 CO



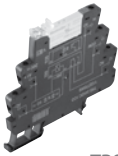
Cross Connects



MC5R 24Vdc



VQB



TRS 24VDC 1CO

SLIMLINE RELAYS – THE NEW TERM SERIES //

Symmetrical & compact slimline design – our lowest profile ever only 88mm high. Relay status LED via integrated optical connection on relay hold down clip – making LED highly visible from all angles and light levels. Plug-In – cross connectable on all levels – now possible to cross connect contacts and coils. Multi Voltage Units available including AC/DC Models and a wide ranging 24-240V AC/DC input option. New pricing structure makes it the most cost-effective slimline relay on the NZ market.

Part number	Type	Rated Coil Voltage	Max. Switch Voltage/Current
1122740000	TRS 5VDC 1CO	5 Vdc	250 Vac - 6amp
1122750000	TRS 12VDC 1CO	12 Vdc	250 Vac - 6amp
1122770000	TRS 24VDC 1CO	24 Vdc	250 Vac - 6amp
1122780000	TRS 24VUC 1CO	24 Vac	250 Vac - 6amp
1122790000	TRS 48VUC 1CO	48 Vac	250 Vac - 6amp
1122800000	TRS 60VUC 1CO	60 Vac	250 Vac - 6amp
1122810000	TRS 120VUC 1CO	120 Vac	250 Vac - 6amp
1122820000	TRS 230VUC 1CO	230 Vac	250 Vac - 6amp
1122830000	TRS 120VAC RC 1CO	120 Vac/dc	250 Vac - 6amp
1122840000	TRS 230VAC RC 1CO	230 Vac/dc	250 Vac - 6amp
1122850000	TRS 24-230VUC 1CO	24-230 Vac	250 Vac - 6amp

ACCESSORIES //

Pluggable Cross Connection		Number of poles
1193670000	ZQV 1.5N/R6.4/2GE	2
1193680000	ZQV 1.5N/R6.4/10GE	10
1193690000	ZQV 1.5N/R6.4/19GE	19
1193700000	ZQV 1.5N/R12.8/10GE	10

MC5R-NEO LOW HYSTERESIS NOISE REJECTING RELAY //

- High noise immunity rejects industrial noise
- Rejects interference
- Ultra compact 6mm wide housing
- Change-over contact
- 6A/240 Vac rated
- Combifoot housing: TS32 & TS35
- 4000Vrms isolation
- LED relay state indication
- Input diode protection
- Coil back-EMF diode protection

Part number	Rated Coil Voltage	Maximum Switch Voltage/Current	Minimum Switch Voltage/Current
	(Change Over)	Resistive	
7940009903	24 Vdc	250 Vac 6A/30 Vdc 6 A	
7940013020	24 Vdc Gold plated (for low current switching)	250 Vac 6A/30 Vdc 6 A	100mVdc/ 0.1 mA

ECO-30 //

Economy relay

Part number	Rated Coil Voltage	Maximum Switch Voltage/Current
		Resistive
7940005581	24V AC/DC	250 V AC/DC 8A

8, 16 & 32 WAY RELAY MODULES (PLUG-IN TYPE)-OMRON G2R RELAY //

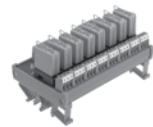
Part number	Description Type	Coil Voltage	Contact config.
7906490000	8 way RSM8	24 Vdc	10A changeover
7906570000	16 way RSM16	24 Vdc	10A changeover
7906610000	16 way RSM16F (fused outputs)	24 Vdc	10A changeover
7940006623	32 way Fused RSM32F	24 Vdc via 40 way ribbon cable	10A changeover



MC5R-NEO



ECO-30



RSM8



RSM16



RSM16F



TERMOPTO //

- Dimensions (LxWxH) 74.5 x 6.1 x 55
- Screw connection
- Clamping range (rating -/min / max) 2.5 / 0.5 / 4

Part number	Input Voltage	Max Switching Voltages/current
8950910000	12 Vdc	5 to 48 Vdc 0.5A
8950920000	24 Vdc	5 to 48 Vdc 0.5A
8950930000	48 Vdc	5 to 48 Vdc 0.5A
8951020000	24 Vac	5 to 48 Vdc 0.5A
8951050000	230 Vac	5 to 48 Vdc 0.5A

MC50 OPTOCOUPLERS //

- Dual input voltage with open collector transistor output
- Width 6mm

Part number	Input Voltage	Maximum Switching Voltage
7906270000	12 Vdc or 24 Vdc	5 to 60 Vdc 250 mA
7906280000	24 Vdc or 48 Vdc	5 to 60 Vdc 250 mA
7906290000	110 Vdc or 24 Vdc	5 to 60 Vdc 250 mA
7906300000	5 Vdc or 12 Vdc	5 to 60 Vdc 250 mA

ACCESSORIES //

Part number	Description
C302382	End Plate

MICROOPTO //

- Dimensions (LxWxH) 90 x 6.1 x 98

Part number	Rated Input Voltage	Max Switching Voltages/current
8937990000	12 to 28 Vdc high switching frequency 100 KHZ	12 V to 28 Vdc/500mA

Solenoid Drivers

8937830000	12 to 300 Vdc	24 Vdc/1A
8937970000	8 to 30 Vdc	24 Vdc/2A
8937940000	24 Vdc	24 Vdc/10A

MC50 Solenoid Driver

- Drives up to 10amp solenoids
- Width 6mm

Part number	Rated Input Voltage	Output Voltage/Current
7901690000	10.5 to 28 Vdc	5 to 34 Vdc10 A inductive

RS01 AC Switching Solid State Relay

- Ideal for driving AC solenoids
- Width 11.2mm

Part number	Rated Input Voltage	Output Voltage/Current
7905930000	10 to 30 Vdc	240 Vac 3A

DO SERIES TRANSPOWER OPTOCOUPLERS //

- Width 6mm

Part number	Rated Input Voltage	Output Voltage/Current
DO135A	110 Vdc	24 Vdc or 48 Vdc (60 Vdc Max)
DO140A	24 Vdc	24 Vdc or 48 Vdc or 110 Vdc (150 Vdc Max)
DO142A	48 Vdc	24 Vdc or 48 Vdc or 110 Vdc (150 Vdc Max)
DO141A	110 Vdc	24 Vdc or 48 Vdc or 110 Vdc (150 Vdc Max)
DO147A (reverse polarity input steering diode)	110 Vdc	24 Vdc or 48 Vdc (60 Vdc Max)
DO050A inverting	110 Vdc	24 Vdc or 48 Vdc (60 Vdc Max)
DO051A inverting	110 Vdc	24 Vdc or 48 Vdc or 110 Vdc (150 Vdc Max)

ACCESSORIES //

Part number	Description
C302382	End Plate



Termopto



MC50 Opto



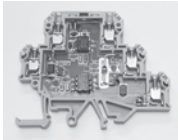
Microopto



MC50 Solenoid Driver



RS01



DO 140A



DRH DC POWER RELAY // Suitable for switching DC inductive loads

Part number	Coil	Part number	Coil
1 Normally Open (1NO)		2 Normally Open (2 NO)	
1219840000	24 V dc	1220140000	12 Vdc
1219850000	110 V dc	1220150000	24 V dc
1219890000	24 V ac	1220200000	24 V dc
1219920000	115 V ac	1220220000	115 V ac
1219930000	230 V ac	1220130000	230 V ac

DRW AC Power Relay //

Part number	Coil	Part number	Coil
3 Normally Open 415V ac Switching		3 Normally Open 415V ac Switching	
1219790000	24 V dc	1219430000	115 V ac
1219820000	110 V dc	1219440000	230 V ac
1219410000	24 V ac	1219450000	415 V ac

PWR High Power Relays -25Amps and30 Amps //

Part number	Coil	Part number	Coil
Plug in (needs Socket) (1NO) 1 Normally Open 30 Amps			
1219610000	12Vdc	1219230000	24Vac
1219620000	24Vdc	1219250000	115Vac
1219640000	110Vdc	1219260000	230Vac
1219650000	220Vdc	1219270000	400Vac

Socket/ Base	
1220240000	Type SWR

PWR High Power Relays -25Amps and30 Amps //

Part number	Coil	Part number	Coil
TS35 Direct Rail Mount (1NO) 1 Normally Open 30Amps			
1219470000	12Vdc	1219090000	24Vac
1219480000	24Vdc	1219130000	115Vac
1219510000	110Vdc	1219140000	230Vac
1219520000	220Vdc	1219150000	400Vac

PWR High Power Relays -25Amps and30 Amps //

Part number	Coil	Part number	Coil
Plug in (Need Socket) (2 NO) 2 Normally Open 25 Amp			
1219670000	12V dc	1219280000	24 Vac
1219680000	24V dc	1219320000	115V ac
1219710000	110V dc	1219330000	230V ac
1219720000	220V dc	1219340000	400V ac

PWR High Power Relays -25Amps and30 Amps //

Part number	Coil	Part number	Coil
TS35 Direct Rail Mount (2NO) 2 Normally, Open 25Amps			
1219540000	12V dc	1219160000	24V ac
1219550000	24V dc	1219320000	115V ac
1219570000	110V dc	1219330000	230V ac
1219580000	200V dc	1219340000	400V ac



RV8H - 6mm Interface Relays (Relay & Socket)

	AC / DC		DC	
	Coil Voltage	Part Number	Coil Voltage	Part Number
	12V	RV8H - L - AD12	6V	RV8H - L - D6
	18V	RV8H - L - AD18	9V	RV8H - L - D9
	24V	RV8H - L - AD24	12V	RV8H - L - D12
	48V	RV8H - L - AD48	18V	RV8H - L - D18
	60V	RV8H - L - AD60	24V	RV8H - L - D24
	110 - 125V	RV8H - L - AD110		
	220 - 240V	RV8H - L - AD220		

Accessories for RV series

	Jumper for RV- 20 points (Black)	SV9Z - J20B
	Jumper for RV- 20 points (Grey)	SV9Z - J20W
	Jumper for RV- 20 points (Blue)	SV9Z - J20S
	Spacer for RV Relay (Grey)	SV9Z - SAW
	Marking Plate for RV - 10 pcs	SV9Z - PW10
	DIN Rail -10.5mm Projection, 1m Long - Aluminium	BNDN1000
	End Clip (small)	BNL - 5

RJ Series - Blade terminal with Built-in LED

	Coil Voltage	SPDT	DPDT
		Part Number	Part Number
	AC 12V	RJ1S - CL - A12	RJ2S - CL - A12
	AC 24V	RJ1S - CL - A24	RJ2S - CL - A24
	AC 110V	RJ1S - CL - A110	RJ2S - CL - A110
	AC 115V	RJ1S - CL - A115	RJ2S - CL - A110
	AC 240V	RJ1S - CL - A240	RJ2S - CL - A240
	DC 5V	RJ1S - CL - D5	RJ2S - CL - D5
	DC 6V	RJ1S - CL - D6	RJ2S - CL - D6
	DC 12V	RJ1S - CL - D12	RJ2S - CL - D12
	DC 24V	RJ1S - CL - D24	RJ2S - CL - D24
	DC 48V	RJ1S - CL - D48	RJ2S - CL - D48
	DC 100-110V	RJ1S - CL - D100	RJ2S - CL - D100

RJ Series - Surge Suppresion Diode, Blade terminal with Built-in LED

	Coil Voltage	Forward Polarity	Reverse Polarity
		Part Number	Part Number
	DC 5V	RJ1S - CLD - D5	RJ1S - CLD1 - D5
	DC 6V	RJ1S - CLD - D6	RJ1S - CLD1 - D6
	DC 12V	RJ1S - CLD - D12	RJ1S - CLD1 - D12
	DC 24V	RJ1S - CLD - D24	RJ1S - CLD1 - D24
	DC 48V	RJ1S - CLD - D48	RJ1S - CLD1 - D48
	DC 100-110V	RJ1S - CLD - D100	RJ1S - CLD1 - D100



RJ Series - Surge Suppression Diode, Blade terminal with Built-in LED (continued)

		Forward Polarity		Reverse Polarity
	Coil Voltage	Part Number		Part Number
	DC 5V	RJ2S - CLD - D5		RJ2S - CLD1 - D5
	DC 6V	RJ2S - CLD - D6		RJ2S - CLD1 - D6
	DC 12V	RJ2S - CLD - D12		RJ2S - CLD1 - D12
	DC 24V	RJ2S - CLD - D24		RJ2S - CLD1 - D24
	DC 48V	RJ2S - CLD - D48		RJ2S - CLD1 - D48
	DC 100-110V	RJ2S - CLD - D100		RJ2S - CLD1 - D100

RJ Series - RC Circuit, Blade terminal with Built-in LED

		SPDT		DPDT
	Coil Voltage	Part Number		Part Number
	AC 12V	RJ1S - CLR - A12		RJ2S - CLR - A12
	AC 24V	RJ1S - CLR - A24		RJ2S - CLR - A24
	AC 110V	RJ1S - CLR - A110		RJ2S - CLR - A110
	AC 200V	RJ1S - CLR - A200		RJ2S - CLR - A200
	AC 220V	RJ1S - CLR - A220		RJ2S - CLR - A220

RJ Series with Bifurcated contacts, Blade terminal with Built-in LED

		Standard		with CR circuit
	Coil Voltage	Part Number		Part Number
	AC 12V	RJ22S - CL - A12		RJ22S - CLR - A12
	AC 24V	RJ22S - CL - A24		RJ22S - CLR - A24
	AC 110V	RJ22S - CL - A110		RJ22S - CLR - A110
	AC 240V	RJ22S - CL - A240		RJ22S - CLR - A240
	DC 5V	RJ22S - CL - D5		
	DC 12V	RJ22S - CL - D12		
	DC 24V	RJ22S - CL - D24		
	DC 100-110V	RJ22S - CL - D100		

RJ Series with Bifurcated contacts, Surge Suppression Diode, Blade terminal and Built-in LED

		Forward Polarity		Reverse Polarity
	Coil Voltage	Part Number		Part Number
	DC 5V	RJ22S - CLD - D5		RJ22S - CLD1 - D5
	DC 6V	RJ22S - CLD - D6		RJ22S - CLD1 - D6
	DC 12V	RJ22S - CLD - D12		RJ22S - CLD1 - D12
	DC 24V	RJ22S - CLD - D24		RJ22S - CLD1 - D24
	DC 48V	RJ22S - CLD - D48		RJ22S - CLD1 - D48
	DC 100-110V	RJ22S - CLD - D100		RJ22S - CLD1 - D100

Sockets and Accessories for RJ Plug-in relays

	Fingersafe Socket for RJ1S Relay	SJ1S - 07LW
	Fingersafe Socket for RJ2S / RJ22S Relay	SJ2S - 07LW
	Jumper for SJ Sockets - 2 Way	SJ9Z - JF2
	Jumper for SJ Sockets - 5 Way	SJ9Z - JF5
	Jumper for SJ Sockets - 8 Way	SJ9Z - JF8
	Jumper for SJ Sockets - 10 Way	SJ9Z - JF10
	Marking Plate for SJ Fingersafe Sockets (10 Pk)	SJ9Z - PWP10

RU Series Universal Relays

	OMRON MY EQUIVALENT	
	• Full featured universal miniature relays	
	• Non-Polarized LED indicator	
	• No internal wires, lead-free construction	
	• Mechanical flag indicator	
	• Manual latching lever with colour coding for AC or DC coil	
	• Snap-on marking plate	

RU Series - Standard Model with Latching Lever

		DPDT (10A)		4PDT (6A)
	Coil Voltage	Part Number		Part Number
	AC 24V	RU2S - A24		RU4S - A24
	AC 110-120V	RU2S - A110		RU4S - A110
	AC 220-240V	RU2S - A220		RU4S - A220
	DC 6V	RU2S - D6		RU4S - D6
	DC 12V	RU2S - D12		RU4S - D12
	DC 24V	RU2S - D24		RU4S - D24
	DC 48V	RU2S - D48		RU4S - D48
	DC 110V	RU2S - D110		RU4S - D110
	* PCB mount version of RU relays available upon request			

RU Series Relays - Surge Suppression Model with Latching Lever

		DPDT (10A)		4PDT (6A)
	Coil Voltage	Part Number		Part Number
	With RC (AC coil)	AC 24V	RU2S - R - A24	RU4S - R - A24
		AC 110-120V	RU2S - R - A110	RU4S - R - A110
		AC 220-240V	RU2S - R - A220	RU4S - R - A220
	With diode (DC coil)	DC 6V	RU2S - D - D6	RU4S - D - D6
		DC 12V	RU2S - D - D12	RU4S - D - D12
		DC 24V	RU2S - D - D24	RU4S - D - D24
		DC 48V	RU2S - D - D48	RU4S - D - D48
		DC 110V	RU2S - D - D110	RU4S - D - D110

RU Series - Bifurcated Contacts with Latching Lever

		Standard Model (3A)		Surge Suppression (3A)
	Coil Voltage	Part Number		Part Number
	AC 24V	RU42S - A24		RU42S - R - A24
	AC 110-120V	RU42S - A110		RU42S - R - A110
	AC 220-240V	RU42S - A220		RU42S - R - A220
	DC 6V	RU42S - D6		RU42S - D - D6
	DC 12V	RU42S - D12		RU42S - D - D12
	DC 24V	RU42S - D24		RU42S - D - D24
	DC 48V	RU42S - D48		RU42S - D - D48
	DC 110V	RU42S - D110		RU42S - D - D110

Accessories for RU series relay

Marking Plate (Pack of 10)	RU9Z - P * PN10
* Specify colour : A (orange), G (green), S (blue), W (white), Y (yellow)	

Sockets for RU Series Relay

	Coil Voltage	Part Number
	Standard DIN Base for RU2S - Finger-safe	SM2S - 05C
	Standard DIN Base for RU4S - Finger-safe	SY4S - 05C
	Pullover Wire Spring (horseshoe clips included)	SY4S - 02F1
	Leaf Hold Spring (side latch) - require 2 per relay	SFA - 202
	Leaf Hold Spring (top latch) - require 2 per relay	SFA - 101



Sockets for RU Series Relay - continued

	SM2S Socket Coil Jumper - 2-way	Part Number
	SM2S Socket Coil Jumper - 5-way	SM9Z - JF5
	SM2S Socket Coil Jumper - 8-way	SM9Z - JF8
	SY4S Socket Coil Jumper - 2-way	SY9Z - JF2
	SY4S Socket Coil Jumper - 5-way	SY9Z - JF5
	SY4S Socket Coil Jumper - 8-way	SY9Z - JF8
	Spring clamp terminal DIN Base for RU2S	SU2S - 11L
	Spring clamp terminal DIN Base for RU4S	SU4S - 11L
	Coil jumper 5 way for SU-11L sockets	SU9Z - J5
	DIN Base for RU4S - Logical Socket with lever	SY4S - 05E1G2
	DIN Base for RU4S - Logical Socket with lever	PYF-14BE/3
	Coil jumper 5 way for SY4S-05E1G2 sockets	SY9Z - CB - PYF - 5

RH Series Relay - Basic Type

OMRON LY EQUIVALENT

	SPDT, 10 Amp		with built-in LED		without built-in LED
		Coil Voltage	Part Number		Part Number
		AC 12V	RH1B - ULAC12V		RH1B - UAC12V
		DC 12V	RH1B - ULDC12V		RH1B - UDC12V
		AC 24V	RH1B - ULAC24V		RH1B - UAC24V
		DC 24V	RH1B - ULDC24V		RH1B - UDC24V
		DC 48V	RH1B - ULDC48V		RH1B - UDC48V
		AC 110-120V	RH1B - ULAC110V		RH1B - UAC110V
		DC 110V	RH1B - ULDC110V		RH1B - UDC110V
		DC 125V			RH1B - UDC125V
		AC 220-240V	RH1B - ULAC240V		RH1B - UAC240V

DPDT, 10 Amp

		Coil Voltage	Part Number		without built-in LED
				with built-in LED	Part Number
		AC 12V	RH2B - ULAC12V		RH2B - UAC12V
		DC 12V	RH2B - ULDC12V		RH2B - UDC12V
		AC 24V	RH2B - ULAC24V		RH2B - UAC24V
		DC 24V	RH2B - ULDC24V		RH2B - UDC24V
		AC 32V	RH2B - ULAC32V		RH2B - UAC32V
		DC 32V	RH2B - ULDC32V		RH2B - UDC32V
		DC 48V	RH2B - ULDC48V		RH2B - UDC48V
		AC 110-120V	RH2B - ULAC110V		RH2B - UAC110V
		DC 125V	RH2B - ULDC125V		RH2B - UDC125V
		AC 220-240V	RH2B - ULAC240V		RH2B - UAC240V

3PDT, 10 Amp

		Coil Voltage	Part Number		without built-in LED
				with built-in LED	Part Number
		AC 12V	RH3B - ULAC12V		RH3B - UAC12V
		DC 12V	RH3B - ULDC12V		RH3B - UDC12V
		AC 24V	RH3B - ULAC24V		RH3B - UAC24V
		DC 24V	RH3B - ULDC24V		RH3B - UDC24V
		DC 48V	RH3B - ULDC48V		RH3B - UDC48V
		AC 110-120V	RH3B - ULAC110V		RH3B - UAC110V
		DC 110V	RH3B - ULDC110V		RH3B - UDC110V
		DC 125V			RH3B - UDC125V
		AC 220-240V	RH3B - ULAC240V		RH3B - UAC240V

RH Series Relay - Basic Type (continued)

OMRON LY EQUIVALENT

	4PDT, 10 Amp		with built-in LED		without built-in LED
		Coil Voltage	Part Number		Part Number
		AC 12V	RH4B - ULAC12V		RH4B - UAC12V
		DC 12V	RH4B - ULDC12V		RH4B - UDC12V
		AC 24V	RH4B - ULAC24V		RH4B - UAC24V
		DC 24V	RH4B - ULDC24V		RH4B - UDC24V
		AC 32V	RH4B - ULAC32V		RH4B - UAC32V
		DC 32V	RH4B - ULDC32V		RH4B - UDC32V
		DC 48V	RH4B - ULDC48V		RH4B - UDC48V
		AC 110-120V	RH4B - ULAC110V		RH4B - UAC110V
		DC 110V	RH4B - ULDC110V		RH4B - UDC110V
		DC 125V			RH4B - UDC125V
		AC 220-240V	RH4B - ULAC240V		RH4B - UAC240V

RH Series Relay - with Surge Suppression Diode

	SPDT, 10 Amp		with built-in LED		without built-in LED
		Coil Voltage	Part Number		Part Number
		DC 12V	RH1B - ULD - DC12V		RH1B - UD - DC12V
		DC 24V	RH1B - ULD - DC24V		RH1B - UD - DC24V
		DC 48V	RH1B - ULD - DC48V		RH1B - UD - DC48V
		DC 110V	RH1B - ULD - DC110V		RH1B - UD - DC110V

DPDT, 10 Amp

		Coil Voltage	Part Number		without built-in LED
				with built-in LED	Part Number
		DC 12V	RH2B - ULD - DC12V		RH2B - UD - DC12V
		DC 24V	RH2B - ULD - DC24V		RH2B - UD - DC24V
		DC 48V	RH2B - ULD - DC48V		RH2B - UD - DC48V
		DC 100-110V	RH2B - ULD - DC100-110V		RH2B - UD - DC100-110V

3PDT, 10 Amp

		Coil Voltage	Part Number		without built-in LED
				with built-in LED	Part Number
		DC 12V	RH3B - LD - DC12V		RH3B - D - DC12V
		DC 24V	RH3B - LD - DC24V		RH3B - D - DC24V
		DC 48V	RH3B - LD - DC48V		RH3B - D - DC48V
		DC 110V	RH3B - LD - DC110V		RH3B - D - DC110V
		DC 125V	RH3B - LD - DC125V		RH3B - D - DC125V

4PDT, 10 Amp

		Coil Voltage	Part Number		without built-in LED
				with built-in LED	Part Number
		DC 12V	RH4B - ULD - DC12V		RH4B - UD - DC12V
		DC 24V	RH4B - ULD - DC24V		RH4B - UD - DC24V
		DC 48V	RH4B - ULD - DC48V		RH4B - UD - DC48V
		DC 110V	RH4B - ULD - DC110V		RH4B - UD - DC110V
		DC 125V			RH4B - UD - DC125V

Options

	Available on request or Indent:	
	Top Mount; Add 'T' to Part Number after U	example: RH2B-UTDC24V
	Check Button; Add 'C' to part No.	example: RH2B-UCDC24V

Sockets for RH Series

				Part Number
			DIN Base for RH1B relay - Finger-safe	SH1B - 05C
			DIN Base for RH2B relay - Finger-safe	SH2B - 05C
			DIN Base for RH3B relay - Finger-safe	SH3B - 05C
			DIN Base for RH4B relay - Finger-safe	SH4B - 05C
			Retaining clip for above sockets 1 only	SFA - 101 (Top Clip)
			Retaining clip for above sockets 1 only	SFA - 202 (Side Clip)



RH Relay accessories (continued)

		Panel Base for	Part Number	PCB Base for	Part Number
		RH1B relay	SH1B - 51	RH1B relay	SH1B - 62
		RH2B relay	SH2B - 51	RH2B relay	SH2B - 62
		RH3B relay	SH3B - 51	RH3B relay	SH3B - 62
		RH4B relay	SH4B - 51	RH4B relay	SH4B - 62

RH series with PCB Terminal

	SPDT, 10A		Basic		with Diode
		Coil Voltage	Part Number		Part Number
		DC 12V	RH1V2 - UDC12V		RH1V2 - UDDC24V
		AC 24V	RH1V2 - UAC24V		
		DC 24V	RH1V2 - UDC24V		RH1V2 - UDDC24V
		DC 48V	RH1V2 - UDC48V		RH1V2 - UDDC48V
		DC 110V	RH1V2 - UDC110V		
		AC 220-240V	RH1V2 - UAC240V		

RH series with PCB Terminal

	DPDT, 10A		Basic		with Diode
		Coil Voltage	Part Number		Part Number
		DC 12V	RH2V2 - UDC12V		RH2V2 - UDDC12V
		AC 24V	RH2V2 - UAC24V		
		DC 24V	RH2V2 - UDC24V		RH2V2 - UDDC24V
		DC 48V	RH2V2 - UDC48V		RH2V2 - UDDC48V
		DC 100-110V	RH2V2 - UDC100-110V		RH2V2 - UDDC100-110V
		AC 110-120V	RH2V2 - UAC110-120V		
		AC 220-240V	RH2V2 - UAC220-240V		

RQ PCB / Plug-in Relay

	SPDT, 12 / 16 Amp		SPDT Standard Model (12A)		SPDT High Capacity (16A)
		Coil Voltage	Part Number		Part Number
		DC 12V	RQ1V - CM - D12		RQ1V - CH - D12
		AC 24V	RQ1V - CM - A24		RQ1V - CH - A24
		DC 24V	RQ1V - CM - D24		RQ1V - CH - D24
		AC 110-120V	RQ1V - CM - A115		RQ1V - CH - A115
	DPDT, 8 Amp	AC 220-240V	RQ1V - CM - A230		RQ1V - CH - A230
		DC 12V	RQ2V - CN - D12		
		AC 24V	RQ2V - CN - A24		
		DC 24V	RQ2V - CN - D24		
		AC 110-120V	RQ2V - CN - A115		
		AC 220-240V	RQ2V - CN - A240		

Sockets for RQ Series

	Description	Part Number
	DIN socket for RQ SPDT relays	SQ1V - 07B
	DIN socket for RQ DPDT relays	SQ2V - 07B
	Spare hold down clip	SQ9Z - C
	Marking Plate	SQ9Z - P
	Plug-in DC LED/Diode	SQ9Z - LD
	Plug-in AC LED/RC	SQ9Z - LR
	8 Way Jumper Link	SQ9Z - J8
	Note: hold down clip and one marking plate is provided with socket	
	PCB socket for RQ SPDT relays	SQ1V - 63
	PCB socket for RQ DPDT relays	SQ2V - 63
	PCB Socket Clip	SQ9Z - 63

RR Round Pin Series

	DPDT, 10 Amp		with LED		without LED
		Coil Voltage	Part Number		Part Number
		AC 12V	RR2P - ULAC12V		RR2P - UAC12V
		DC 12V	RR2P - ULDC12V		RR2P - UDC12V
		AC 24V	RR2P - ULAC24V		RR2P - UAC24V
		DC 24V	RR2P - ULDC24V		RR2P - UDC24V
		DC 48V	RR2P - ULDC48V		RR2P - UDC48V
		AC 110V	RR2P - ULAC110V		RR2P - UAC110V
		DC 110V	RR2P - ULDC110V		RR2P - UDC110V
		AC 240V	RR2P - ULAC240V		RR2P - UAC240V
	3PDT, 10 Amp (Int Standard wiring)	AC 12V	RR3PA - ULAC12V		RR3PA - UAC12V
		DC 12V	RR3PA - ULDC12V		RR3PA - UDC12V
		AC 24V	RR3PA - ULAC24V		RR3PA - UAC24V
		DC 24V	RR3PA - ULDC24V		RR3PA - UDC24V
		DC 48V	RR3PA - ULDC48V		RR3PA - UDC48V
		AC 110V	RR3PA - ULAC110V		RR3PA - UAC110V
		DC 110V	RR3PA - ULDC110V		RR3PA - UDC110V
		AC 240V	RR3PA - ULAC240V		RR3PA - UAC240V

Options

 	Indent Indent		with LED
		Description	Part Number
		Side Flange Mount - Add "S" to P/N AFTER "U"	ADD
		Diode Protection DC only	ADD
		Latching Relay (2 coils)	
		Available in DC12, 24, 48, 110, AC24, 110, 240	

Sockets for RR Series Relay

	Description	Part Number
	DIN 8 Pin Base for RR2P relay	SR2P - 05C
	DIN 8 Pin Base for RR2P relay	SR2P - 06U
	DIN 11 Pin Base for RR3P relay	SR3P - 05C
	DIN 11 Pin Base for RR3P relay	SR3P - 05U
	DIN 11 Pin Base for RR3P relay	SR3P - 06U
	Clip for SR2P sockets	SR2B - 02F1
	Clip for SR3P sockets	SR3B - 51F1

RY Series Relay - Slim Type

	DPDT, 3 Amp		with Built-in LED		without LED
		Coil Voltage	Part Number		Part Number
		AC 12V	RY2S - ULAC12V		RY2S - UAC12V
		DC 12V	RY2S - ULDC12V		RY2S - UDC12V
		AC 24V	RY2S - ULAC24V		RY2S - UAC24V
		DC 24V	RY2S - ULDC24V		RY2S - UDC24V
		DC 48V			RY2S - UDC48V
		DC 110V	RY2S - ULDC110V		RY2S - UDC110V
		AC 110V	RY2S - ULAC110V		RY2S - UAC110V
		AC 220-240V	RY2S - ULAC240V		RY2S - UAC240V



RY Relay (continued)

4PDT, 5 Amp 		with Built-in LED	without LED
	Coil Voltage	Part Number	Part Number
	DC 12V	RY4S - ULDC12V	RY4S - UDC12V
	AC 24V	RY4S - ULAC24V	RY4S - UAC24V
	DC 24V	RY4S - ULDC24V	RY4S - UDC24V
	DC 48V	RY4S - ULDC48V	RY4S - UDC48V
	AC 110V	RY4S - ULAC110V	RY4S - UAC110V
	DC 110V	RY4S - ULDC110V	RY4S - UDC110V
Latching 	AC 240V	RY4S - ULAC240V	RY4S - UAC240V
	DC12V	RY2KS - UDC12V	
	DC24V	RY2KS - UDC24V	
	DC110V		RY2KS - UDC110V

Sockets for RY Series Relay

 	Description	Part Number
	DIN Base for RY2S relay	SY2S - 05C
	DIN Base for RY4S relay	SY4S - 05C
	DIN Base for RY4S relay - non finger safe	SY4S - 05U
	Clip for DIN Base	SFA - 101
	Panel Base for RY2S relay	SY2S - 51
	PCB Base for RY2S relay	SY2S - 61
	Panel Base for RY4S relay	SY4S - 51
	PCB Base for RY4S relay	SY4S - 61 or SY4S - 62
	Wire Spring for RY2 and RY4	SY2S-02F1 and SY4S-02F1
	Wire Spring for PC - RH/RV Series	SY4S - 51F1

RSC Solid State Relays with Built-in Heat sink

	Output Current	Input Control Voltage	Part Number
	20A	4 - 32V DC	RSCDN - 20A
	30A	4 - 32V DC	RSCDN - 30A
	45A	4 - 32V DC	RSCDN - 45A
	20A	90 - 140V AC	RSCA1N - 20A
	30A	90 - 140V AC	RSCA1N - 30A
	45A	90 - 140V AC	RSCA1N - 45A
	20A	180 - 280V AC	RSCA2N - 20A
	30A	180 - 280V AC	RSCA2N - 30A
	45A	180 - 280 V AC	RSCA2N - 45A

RSS Panel Mount Solid State Relays

90-280V AC Input 	Output Current	Input Control Voltage	Part Number
	10A	90 - 280V AC	RSSAN - 10A
	25A	90 - 280V AC	RSSAN - 25A
	50A	90 - 280V AC	RSSAN - 50A
	75A	90 - 280V AC	RSSAN - 75A
	90A	90 - 280V AC	RSSAN - 90A
4-32V DC Input 	10A	4 - 32V DC	RSSDN - 10A
	25A	4 - 32V DC	RSSDN - 25A
	50A	4 - 32V DC	RSSDN - 50A
	75A	4 - 32V DC	RSSDN - 75A
	90A	4 - 32V DC	RSSDN - 90A
	RSS-CVR Finger safe cover		

Force Guided Relays

RF1V Series with LED indicator, PCB Terminal

Series	Poles	Contact Configuration	Voltage	Part Number
	4-pole	2NO-2NC	12V DC	RF1V - 2A2BL - D12
			24V DC	RF1V - 2A2BL - D24
			48V DC	RF1V - 2A2BL - D48
		3NO-1NC	12V DC	RF1V - 3A1BL - D12
			24V DC	RF1V - 3A1BL - D24
			48V DC	RF1V - 3A1BL - D48
	6-pole	4NO-2NC	12V DC	RF1V - 4A2BL - D12
			24V DC	RF1V - 4A2BL - D24
			48V DC	RF1V - 4A2BL - D48
		5NO-1NC	12V DC	RF1V - 5A1BL - D12
			24V DC	RF1V - 5A1BL - D24
			48V DC	RF1V - 5A1BL - D48
		3NO-3NC	12V DC	RF1V - 3A3BL - D12
			24V DC	RF1V - 3A3BL - D24
			48V DC	RF1V - 3A3BL - D48
*Non-LED versions available upon request				

Sockets for RF1V

 	Description	Part Number
	DIN Mount Socket for 4-pole RF1V	SF1V - 4 - 07L
	DIN Mount Socket for 6-pole RF1V	SF1V - 6 - 07L
	PCB Mount Socket for 4-pole RF1V	SF1V - 4 - 61
	PCB Mount Socket for 6-pole RF1V	SF1V - 6 - 61



GT3A - Multi Range / Multi Function			
	• 40H x 36W x 64.2D		
	• Time Range: 0.1 sec - 180 Hrs		

8 Pin, Analog			
On Delay, Interval, Cycle - Off Start, Cycle - On Start			
GT3A-1	1CO Delayed	100 - 240VAC	GT3A - 1AF20
GT3A-2	1CO Delay +	100 - 240VAC	GT3A - 2AF20
	1CO Instant	24V AC/DC	GT3A - 2AD24
		12V DC	GT3A - 2D12
GT3A-3		100 - 240VAC	GT3A - 3AF20
	2CO Delayed	24V AC/DC	GT3A - 3AD24
		12V DC	GT3A - 3D12

11 Pin Analog - with Start, Reset & Gate inputs			
On Delay, Cycle - Off Start, Signal ON/OFF Delay, Signal OFF Delay			
GT3A-4		100 - 240VAC	GT3A - 4AF20
	2CO Delayed	24V AC/DC	GT3A - 4AD24
		12V DC	GT3A - 4D12

Interval, One Shot Cycle, Signal ON/OFF Delay, Signal OFF Delay			
GT3A-5	2CO Delayed	100-240VAC	GT3A - 5AF20

One Shot 1, One Shot ON Delay, One Shot 2, Signal ON/OFF Delay			
GT3A-6	2CO Delayed	100-240VAC	GT3A - 6AF20

GT3D - Multi Range, Multi Function			
	• 40H x 36W x 64.2D		
	• Digital Display with Thumbwheel Setting Switch		
	• Time Range: 0.01 sec - 99.9 hrs		
11 Pin Digital - with Start, Reset & Gate inputs			
On Delay, Interval, Cycle - Off Start, Cycle - On Start			
GT3D-4	1CO Delayed	100 - 240VAC	GT3D - 4AF20



GT3F - True Delay Off			
			
	• 40H x 36W x 64.2D		
	• Time Range: 0.05 sec - 10 min		
Function	Contacts	Supply Voltage	Part Number
GT3F-1	1CO Delayed	100 - 240VAC	GT3F - 1AF20
		24V AC/DC	GT3F - 1AD24
GT3F-2	2CO Delayed	100 - 240VAC	GT3F - 2AF20
		24V AC/DC	GT3F - 2AD24

GT3S - 8 Pin Plug-in Star Delta Timer			
			
		• 40H x 36W x 64.2D	
		• Time Range: Two models: (A11) 0.1sec - 6hrs; and (A33) 0.1sec - 300hrs	
GT3W-A11		100 - 240VAC	GT3W - A11AF20N
	2CO delayed	24V AC/DC	GT3W - A11AD24N
		12V DC	GT3W - A11D12N
GT3W-A33	2CO delayed	100 - 240VAC	GT3W - A33AF20N
		24V AC/DC	GT3W - A33AD24N

GE1A - 8 Pin Plug-In Mono-Function ON Delay Timer				
				
	• 48mm x 48mm			
	• Two Time Ranges 10M or 10H as listed below			
Function	Contacts	Supply Voltage		Part Number
GE1A-B	1CO delayed	220 - 240V AC	0.1s-10M	GE1A-B10MA220
	+ 1CO Instant	110 - 120V AC	0.1s-10M	GE1A-B10MA110
		24V AC/DC	0.1s-10M	GE1A-B10MA220
	1CO delayed	220 - 240V AC	0.1M-10H	GE1A-B10HA220
	+ 1CO Instant	110 - 120V AC	0.1M-10H	GE1A-B10HA110
		24V AC/DC	0.1M-10H	GE1A-B10HAD24
GE1A-C	2CO delayed	220 - 240V AC	0.1s-10M	GE1A-C10MA220
		110 - 120V AC	0.1s-10M	GE1A-C10MA110
		24V AC/DC	0.1s-10M	GE1A-C10MA220
GE1A-C	2CO delayed	220 - 240V AC	0.1M-10H	GE1A-C10HA220
		110 - 120V AC	0.1M-10H	GE1A-C10HA110
		24V AC/DC	0.1M-10H	GE1A-C10HAD24



GE1A - 8 Pin Plug-In Mono-Function ON Delay Timer



- 29mm x 36mm x 69mm (including dial)
- Various Time Range models to select from
- 8 Pin Octal base

Function	Contacts	Supply Voltage		Part Number	
GT5P-N					
	10 sec	1CO delayed	240V AC	10sec	GT5P - N10SA200
			100V AC	10sec	GT5P - N10SA100
			24V AC/DC	10sec	GT5P - N10SAD24
	30 sec	1CO delayed	240V AC	30sec	GT5P - N30SA200
			100V AC	30sec	GT5P - N30SA100
			24V AC/DC	30sec	GT5P - N30SAD24
	60 sec	1CO delayed	240V AC	60sec	GT5P - N60SA200
			100V AC	60sec	GT5P - N60SA100
			24V AC/DC	60sec	GT5P - N60SAD24
	6 min	1CO delayed	240V AC	6min	GT5P - N6MA200
			100V AC	6min	GT5P - N6MA100
			24V AC/DC	6min	GT5P - N6MAD24
	10 min	1CO delayed	240V AC	10min	GT5P - N10MA200
			100V AC	10min	GT5P - N10MA100
			24V AC/DC	10min	GT5P - N10MAD24

GT5Y - Miniature, Multi-Range ON delay Timer - 4CO delay contact			
21 x 27.5 x 58.6 mm		1S/10S/1M/10M	6S/60S/6M/60M
	240V AC	GT5Y - 4SN1A200	GT5Y - 4SN6A200
	24V AC	GT5Y - 4SN1A24	GT5Y - 4SN6A24
	24V DC	GT5Y - 4SN1D24	GT5Y - 4SN6D24

RTE - Space saving, MULTI-FUNCTION Timers			
	36 x 40 x 77.9mm - Time Range: 0.1sec - 600hrs - Output Configuration: 2 CO Delayed		
		Blade Terminals	8 Pin
Power Triggered	100 - 240VAC	RTE - B1AF20	RTE - P1AF20
	24V AC/DC	RTE - B1AD24	RTE - P1AD24
	12V DC	RTE - B1D12	RTE - P1D12
Signal Triggered	100 - 240VAC	RTE - B2AF20	RTE - P2AF20
	24V AC/DC	RTE - B2AD24	RTE - P2AD24
	12V DC	RTE - B2D12	RTE - P2D12

Accessories		
	Description	Part Number
	Sockets	DIN 8 Pin suits GT3, GE1A, GT5P, RTE
		DIN 8 Pin suits GT3, GE1A, GT5P, RTE
		DIN 11 Pin suits GT3 series
		DIN 14 Pin suits GT5Y
		8 Pin rear connected socket for GT series
		11 Pin rear connected socket for GT series
		11 Pin socket for RTE-B blade terminals
	Clips	Retaining Clip suits GT series only
		Wire socket adapter
		Wire socket adapter
	Adapters	Panel mount adapter for GT3
		Panel mount adapter for GE1A
	Dust Cover	Dust cover for GE1A



HR2S - Compact Safety Relay Module - (PL)e Cat 4

Description		S/Cat.	Part Number
3 NO + 1 NO	Positive Input	4 (3)	HR2S - 301P
3 NO + 1 NO	Negative Input	4 (3)	HR2S - 301N
3 NO + 2 NC + 3 NO (time-delay outputs)		4	HR2S - 332N - T075
3 NO + 2 NC + 3 NO (time-delay outputs)		4	HR2S - 332N - T15
3 NO + 2 NC + 3 NO (time-delay outputs)		4	HR2S - 332N - T30
Note: Time delay setting in 15 steps.		T075: 7.5 sec(0.5, 1.0 ... 7.0, 7.5)	
		T15: 15 sec (1, 2 ... 14, 15)	
		T30: 15 sec (2,4 ... 28,30)	

Accessory for HR2S

Description		Part Number
Terminal / Coding key (4 terminals, 18 coding keys)		HR9Z - PMT1PN04
Terminal Cover (set of 10)		HR9Z - PMC1PN10
Protective Tape (set of 5)		HR9Z - PE1PN05

HR1S - Safety Relay Module

E-Stops, Interlock switches and Enabling switches monitoring

	Description		S/Cat.	Part Number
	3 NO + 1 NO transistor outputs		3	HR1S - AC5121
	3 NO		4	HR1S - AF5130B
	3 NO / 1 NC + 2 NO (off-delay outputs)		4 (3)	HR1S - ATE5110

Light curtains, E-Stops, Interlock switches and Enabling switches monitoring

	3 NO / 1 NC + 4 NO transistor outputs	4	HR1S - AK311144
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Non-contact interlock switches monitoring

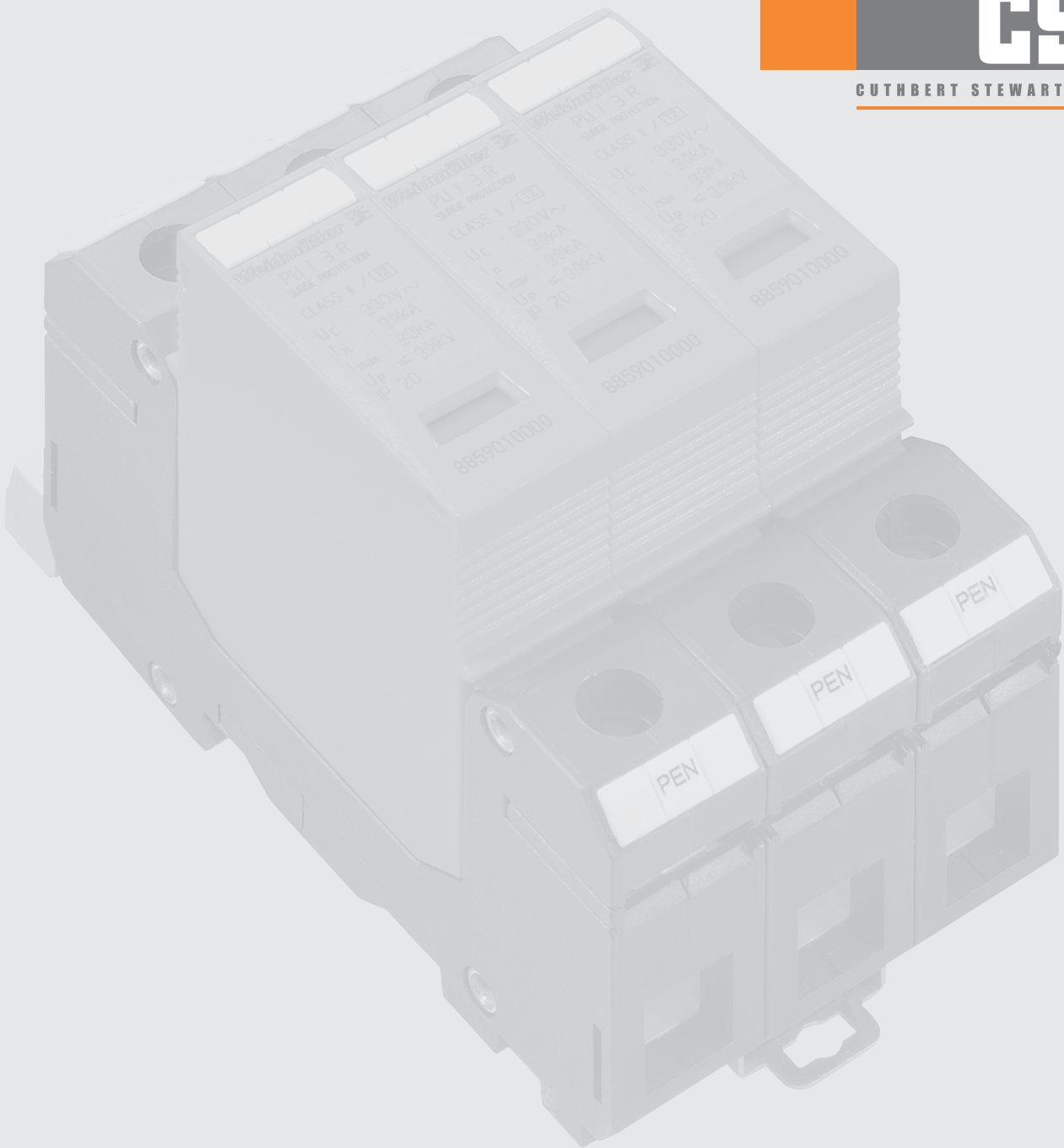
	2 inputs, 2 NO / 2 NO transistor	4	HR1S - DMB1132
	6 inputs, 2 NO / 2 NO transistor	4	HR1S - DME1132
	*Removable terminal block types available on request.		

FS1A SafetyOne

	• Easy circuit configuration by logic selection (no programming)		
	• Built-in solenoid drive output		
	• Works with various mechanical and electric safety components		
	• Replaces up to six safety relay modules		
	• LED indicators for errors and I/O statuses		
	• SIL3, Performance Level e, Safety Category 4		

FS1A Series

	Description		Part Number
	Safety Controller Cat 4/SIL3 - 24VDC 14 safety inputs, 4 safety outputs, 2 start inputs,10 monitor outputs, 2 solenoid/muting lamp outputs		FS1A - C11S
	Spare Input connector		FS9Z - CN01
	Spare Output connector		FS9Z - CN02
	Marked cable ties - Pkt of 10		FS9Z - MT01PN10
	* No programming software required. Configuration can be done using DIP switch		



SECTION 7



SURGE
PROTECTION//

LOW VOLTAGE SUPPLIES //

Features

- Plug-in varistor top section
- 180° rotatable insert
- Relay output options
- Flag indication – varistor health
- No follow current
- Thermal safety function
- High energy absorption with short response time

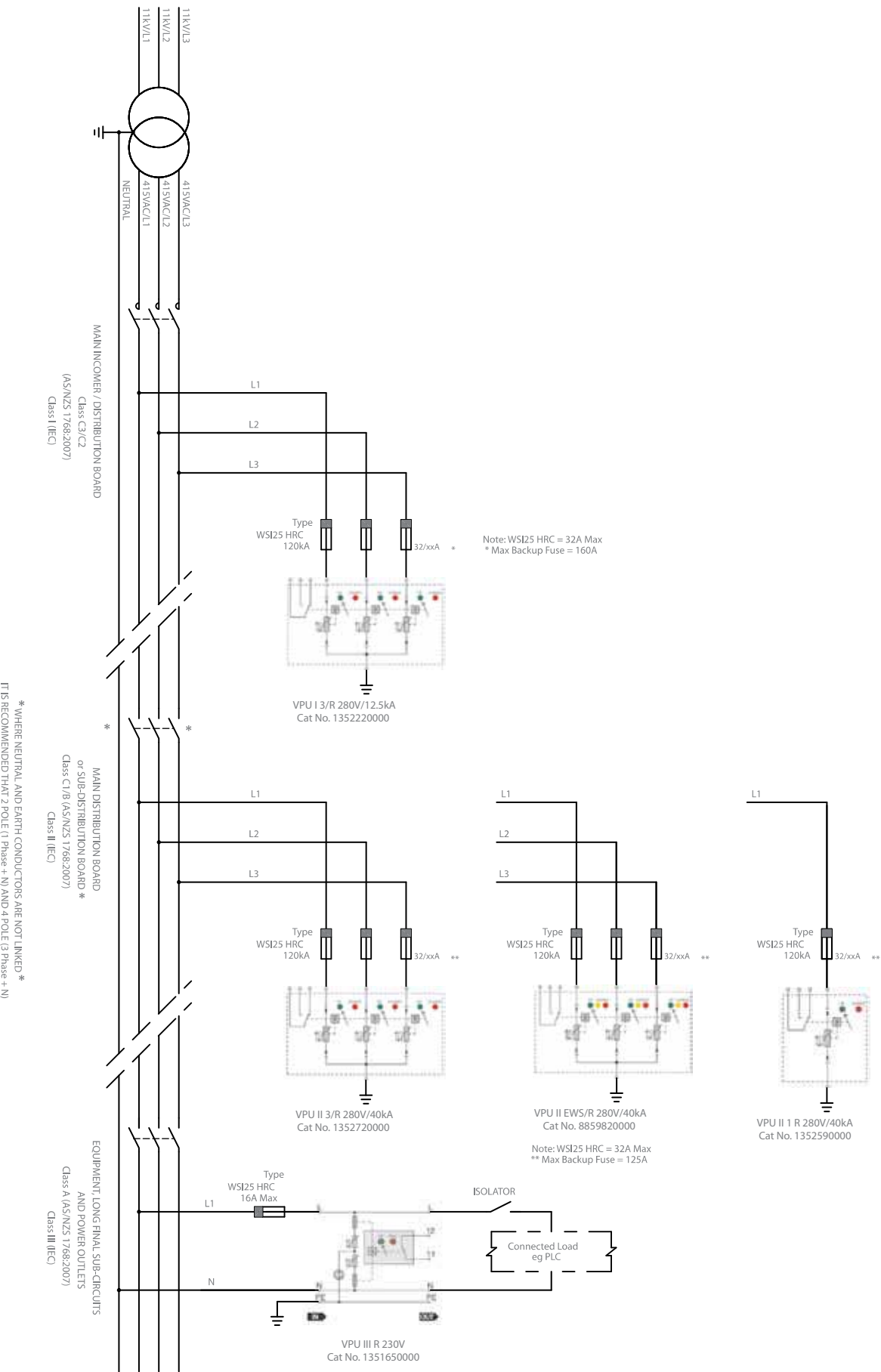
Type	Description	Application	Part Number	
VPU I 3/R 280V/12.5kA	Class I (IEC 61643-1) Category C2 (AS/NZS 1768:2007) *12.5kA 10/350µs waveform 3 Pole SPD Green/ Red flag indication	High lightning area. Service entrance building fed by long overhead service lines. Large industrial or commercial premises.	With relay	1352220000
3 Phase Class I			Plug-in spare arrester	1352020000
*Note: AS/NZS 1768:2007 states: A factor of x 10 maybe loosely used to provide an equivalence between 8/20 and 10/350 waveforms				
VPU II 3/R 280V/40kA	Class II IEC 61643-1 Category C1/B2 AS/NZS 1768:2007 40kA 8/20µs waveform 3 Pole SPD Green/ Red flag indication	Light industrial, commercial and domestic applications. C1 service entrance other than C2/C3. Also B-Major submains, short final sub-circuits and load centres.	Without relay	1352700000
3 Phase Class II			With relay	1352720000
			Plug-in spare arrester	1352570000
VPU II 3 EWS/R 280V/40kA	Class II IEC 61643-1 Category C1/B2 AS/NZS 1768:2007 40kA 8/20µs waveform 3 Pole SPD Green/ Yellow/Red EWS Early Warning System flag indication	Light industrial, commercial and domestic applications. C1 service entrance other than C2/C3 Also B-Major submains, short final sub-circuits and load centres.	Without relay	N/A
3 Phase Early Warning System Class II			With relay	8859820000
			Plug-in spare arrester	8889350000
VPU II 1/R 280V/40kA	Class II IEC 61643-1 Category C1/B2 AS/NZS 1768:2007 40kA 8/20µs waveform 1 Pole SPD Green/ Red flag indication	Light industrial, commercial and domestic applications. C1 service entrance other than C2/C3. Also B-Major submains, short final sub-circuits and load centres.	Without relay	1352580000
Single Phase Class II			With relay	1352590000
			Plug-in spare arrester	1352570000
VPU III R 230V/6kV	Class III (IEC 61643-1) Category A (AS/NZS 1768:2007) 5kA 8/20µs waveform Single Phase + neutral 16 amp max.	Machinery and equipment. e.g. PLC supply protection long final subcircuits and electricity outlets.	Without relay	N/A
Single Phase Class III			With relay	1351650000
			Plug-in spare arrester	Not plug in
WSI 25 Fuse Terminals	WSI25 120kA HRC DIN Rail Mount Fuse Holder	Recommended fuse holder for all Weidmüller SPD devices.	1 Pole	1966020000
			2 Pole	1966090000
			3 Pole	1966080000
HRC FUSES	HRC Fuse for above 120kA 10mm x 38mm 32 Amp	Recommended fuse for WSI25 fuse holders.		FUSE16043
For WSI25 fuse holders above				

For other HRC current ratings see the HRC FUSES section on page 19.

These devices are connected between active and earth. When a surge is present the device shunts the transient directly to earth. Each device has an inbuilt Optical Function Indicator. Green for Ok and Red for Replace. Over time, the conductive effects of many surges could require replacement of the plug-in arrester. The plug-in arrester is easily replaced without tools.

We can also provide surge protection for control, signal and instrumentation circuits. Please contact CSL customer services for a full catalogue on these and other voltages.

Quick Select



VPU I 3/R 280V/12.5kA



VPU II 3/R 280V/40kA



VPU II 1/R 280V/40kA



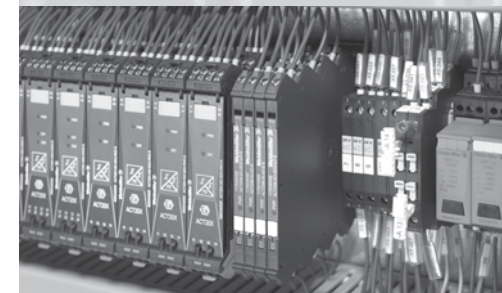
VPU III R 230V/6kV



WSI 25 Fuse Terminals

SECTION 8

SIGNAL//

Weidmüller 



ACT20P Bridge



WAS6TTA



ACT20M -UI-AO-S



CBX200 USB



Portacal 275



ACT20X-2HDI-
2SDO-RNO-S

SIGNAL ISOLATORS //

Signal Isolaters and Convertors

Weidmüller's range of signal isolators, convertors and indicators is very diverse and there is a model to suit almost any application. Our range includes models from the new ACT20M 6.1mm wide range to the Wave series which have field range adjustment. We also have models such as the ITX Plus, Wave TTA and the new ACT20M-UI-AO-S that are programmable via a PC using the CBX 100 or CBX 200 USB interface cable. Below is a selection of the more commonly used units that will cover most applications. For more information please contact CSL and we will be able to refine your product selection.

Part No.	Type	Description
Signal conditioner/isolator with programmable alarms		
8939670000	WAS6 TTA Variable	PC configurable isolator/convertor with 2 x SPDT relays
Signal conditioner/isolator		
7940016563	ITXPlus	Output loop powered PC configurable isolator/convertor
7940024139	WavePak DC/DC	12-60Vdc powered isolator/convertor - jumper selectable
1067250000	ACT20P-BRIDGE-S	Isolator/convertor for strain gauge bridge units
ACT20M- Signal conditioner/Isolator (6.1mm wide) 4 wire		
1176030000	ACT20M-UI-AO-S	Universal adjustable input for Thermocouples, RTD, V, mA, resistance & potentiometer - output selectable 0(4) - 20mA or 0(2) 10V
1176010000	ACT20M-AI-AO-E-S	DIP Switch selection of mA/V input /output combinations
1176000000	ACT20M-AI-AO-S	mA/V input/output, DIP switch selectable - 24Vdc supply and 17V sensor supply
1176020000	ACT20M-AI-SAO-S	mA/V input/2 x output, DIP switch selectable - 24Vdc supply and 17V sensor supply
1175980000	ACT20M-CI-CO-S	0(4)-20mA input/ 0(4)-20mA output, 600 ohm load
1175990000	ACT20M-CI-2CO-S	0(4)-20mA input/2 x 0(4)-20mA output, 2 x 300 ohm load loop splitter
1176070000	ACT20M CI-CO-ILP-S	Input loop powered 4-20mA 1 channel isolator
1176080000	ACT20M 2CI-2CO-ILP-S	Input loop powered 4-20mA 2 channel isolator
1176040000	ACT20M CI-CO-OLP-S	Output loop powered 4-20mA 1 channel isolator
1176050000	ACT20M 2CI-2CO-OLP-S	Output loop powered 4-20mA 2 channel isolator
Calibrators		
7940010202	Portacal 275	Handheld signal source and loop tester, has four modes
7940010194	Portacal 1000	Microprocessor based calibrator for mA and volt signals

ACT20X -universal, Intrinsically safe signal conditioners for harardous area applications

The ACT20X products fulfil the strict standards of the hazardous area industries and process signals from various EX zones (zones 0,1,2) for the control system. ACT20X can be used universally. On the input side, the ACT20X can process HART input signals, DC, RTD, thermcouple or NAMUR signals from the EX area. On the out put side, field devices in the EX area are controlled via the ACT20X with analouge or digital signals.

Part No.	Type	Channel	
digital input/Namur software configurable			
8965340000	ACT20X-HDI-SDO-RNO-S	1	NO relay ouput
8965370000	ACT20X-2HDI-2SDO-RNO-S	2	NO relay ouput
8965350000	ACT20X-HDI-SDO-RNC-S	1	NC relay ouput
8965380000	ACT20X-2HDI-2SDO-RNC-S	2	NC relay ouput
8965360000	ACT20X-HDI-SDO-S	1	Transistor ouput
8965390000	ACT20X-2HDI-2SDO-S	2	Transistor ouput
soleniod driver software configurable - Digital input			
8965400000	ACT20X-SDI-HDO-L-S	1	(35 mA for class IIC)
8965420000	ACT20X-2SDI-2HDO-S	2	(35 mA for class IIB)
8965410000	ACT20X-SDI-HDO-H-S	1	(60 mA for class IIB)
4-20mA HART transparent input software configurable - 4-20mA output			
8965430000	ACT20X-HAI-SAO-S	1	
8965440000	ACT20X-2HAI-2SAO-S	2	
8965450000	ACT20X-SAI-HAO-S	1	(field device)
8965460000	ACT20X-2SAI-2HAO-S	2	(field device)
RTD/thermocouple/mA inputs software configurable - 4-20mA output			
8965470000	ACT20X-HTI-SAO-S	1	
8965480000	ACT20X-2HTI-2SAO-S	2	
8965490000	ACT20X-HUI-SAO-S	1	resistor/pot/DC inputs

SECTION 9

INDUSTRIAL DATA
PRODUCTS //



WEIDMÜLLER STEADYTEC® RJ45 RAIL OUTLETS //

STEADYTEC® RJ45 Rail Outlets

STEADYTEC® Rail Terminal Outlets provide a flexible; industrial ruggedised solution for field cable termination and patching within a cabinet or cubicle. Covering a range of copper and fibre connector types, in a compact form factor. The solution is well suited to applications with a low density of terminations where traditional patch panels would be too cumbersome.

Features

- Termination of installation cables
- RJ45 patching
- Operating temperature: -25°C to 70°C
- Integrated switch for isolating/terminating cable screen
- Suitable for mounting on TS35 DIN rail

Part number	Type	Description
8946920000	IE TO RJ45 C	RJ45 Coupler
8946930000	IE TO RJ45 FJ A	RJ45 Direct Term A-Coded
8946940000	IE TO RJ45 FJ B	RJ45 Direct Term B-Coded
8946950000	IE TO RJ45 FJ P	IE TO RJ45 FJ P

WEIDMÜLLER STEADYTECH® FIBRE OPTIC RAIL OUTLETS //

Features

- Used to connect fibre optic cables with SC Duplex, SCRJ and LC Duplex Connectors
- Suitable for mounting on TS35 DIN rail
- Operating temperature: -25°C to 70°C

Part number	Type	Description
8947010000	IE TO LCD MM	LC Duplex Multimode Outlet
8947020000	IE TO LCD SM	LC Duplex Singlemode Outlet
8946970000	IE TO SCD MM	SC Duplex Multimode Outlet
8946980000	IE TO SCD SM	SC Duplex Singlemode Outlet
8946990000	IE TO SCRJ MM	SCRJ Multimode Outlet
8947000000	IE TO SCRJ SM	SCRJ Singlemode Outlet

WEIDMÜLLER STEADYTEC® USB RAIL OUTLET //

Features

- Suitable for mounting on TS35 DIN rail
- Operating temperature: -25°C to 70°C
- Used to connect USB A-type cable

Part number	Type	Description
8946960000	IE TO USB	USB A-Type Cable Outlet



IE TO RJ45 FJ A



IE TO SCD MM



IE TO USB



FRONTCOM MICRO FRONT PANEL INTERFACE //

FrontCom Micro

FrontCom Micro provides a flexible, IP65 single dataport, front panel interface solution for RJ45 and USB. RJ45 direct termination or thru-coupler options are available and the weatherproof rubber housing is fully sealable when not in use.

Features

- FrontCom Micro Series
- Tested to 750 plugging cycles (to IEC 60603-7)
- Ingress Protection Class: IP65 - EN 60529
- Simple installation with circular panel cutout

Part number	Type	Description
1018790000	IE-FCM-RJ45-C	RJ45 Coupler
1018810000	IE-FCM-RJ45-FJ-A	Direct Terminate RJ45 TIA-A
1018830000	IE-FCM-RJ45-FJ-P	Direct Terminate RJ45 IE Coding
1018840000	IE-FCM-USB-A	USB Coupling

COPPER CONNECTORS //

STEADYTEC® Field-Terminatable RJ45

Weidmüller's Field-Terminatable RJ45 plug uses STEADYTEC® technology to ensure the most robust, reliable RJ45 connection available. The connector incorporates crimp-free installation without the need for specialised tools and provides a significantly more durable solution than standard crimp connectors.

Features

- Tested to 750 plugging cycles (to IEC 60603-7)
- No crimp tool required
- IP20 Protection Class
- Can be re-terminated up to five times without any loss of function
- Suited for assembling your own installation cables
- Snagless construction for easy cable pulling

Part number	Type	Description
1963600000	IE-PS-RJ45-FH-BK (Copper)	RJ45-Toolless plug



IE-FCM-RJ45-C



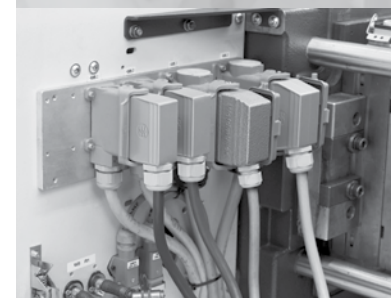
IE-FCM-RJ45-FJ-A



IE-FCM-USB-A



IE-PS-RJ45-FH-BK (Copper)



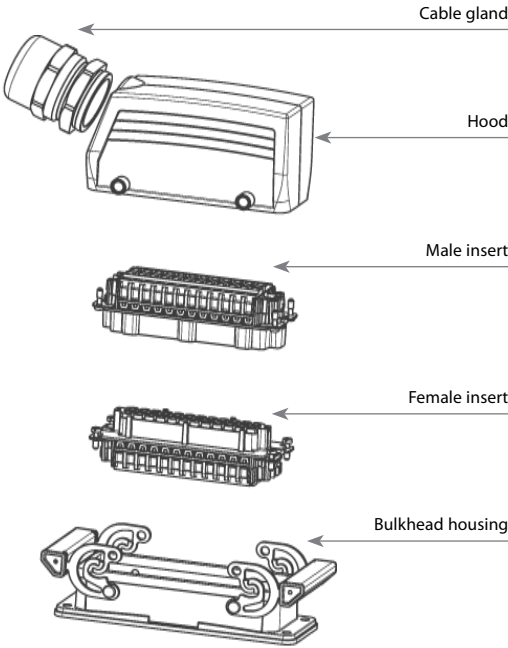
SECTION 10

HEAVY DUTY CONNECTORS //



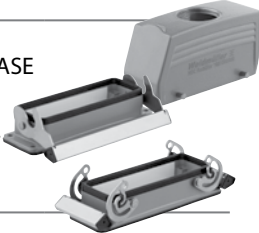
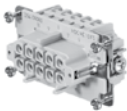
Superior in the details

- **Free choice** with one of the largest ranges of Industrial Multipole Connectors on the market (contact us for a full catalogue)
- **Stainless steel locking system as standard** on all housings ensures long life and resistance to corrosion and impact
- **Integrated cable thread in all housings** allows you to use either a Weidmüller or your own standard cable gland
- **Special die-cast alloy and multi-surface sealing** makes Rockstar housings corrosion proof to the toughest of conditions
- World 1st with choice of **PUSH IN connection technology**
- Only one type of plastic material **free from any harmful substances** is used in the entire Rockstar range
- All our housings guarantee the best possible sealing to **high IP65 ingress protection**. IP69K rating also available (please ask)



Selecting an Industrial Multipole Connector

- 1
- Page 93 - The Quick Selection Guide
- 2
- Pages 94 to 95 - Select a matching FEMALE and MALE INSERT based on the number of poles and voltage/current you require. NOTE: Check the size of the insert (i.e. 1, 2, 3 ... etc).
- 3
- Page 96 - Select either a SIDE, or TOP CABLE ENTRY HOOD to match the size of the inserts. NOTE: You also have the option of either 1 end lock or 2 side locks.
- 4
- Page 97 - Select either a BULKHEAD or BASE HOUSING again to match the size of the inserts.
- NOTE: Coupling Hoods are also available as an accessory on this page.
- NOTE: You must select the same number of locks as the hood.

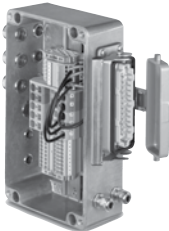


Sizing Allocations

Housings	Inserts
Size 1	HA 3, HA 4
Size 2	HA 10
Size 3	HE 6
Size 4	HE 10
Size 5	HA 16
Size 6	HE 16, HSB 6
Size 7	HA 32
Size 8	HE 24
Size 9	HA 48
Size 10	HE 32, HSB 12
Size 12	HA 48

Customer Assembly

Cuthbert Stewart Limited can also supply Industrial Multipole Connectors prefabricated to your custom specifications. This includes loose prewired cable assemblies or even mounted in the side of a junction box. Ask us for more information.



The Quick Selection Guide will assist you to configure a complete connector. Consisting of a male insert, female insert, hood, bulkhead housing and cable gland, this page will allow you to save time.

HA 3 3-pole, 250 V, 10 A, size 1						
	Female insert	Male insert	Hood	Cable glands	Bulkhead housing	
Metal Housing						
M20	1498200000	1498100000	1788820000	1772220000	1497600000	

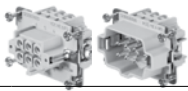
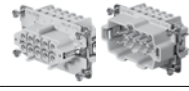
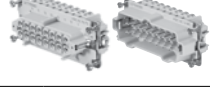
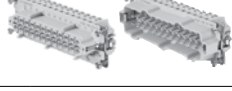
HA 4 4-pole, 250 V, 10 A, size 1						
	Female insert	Male insert	Hood	Cable glands	Bulkhead housing	
Metal Housing						
M20	1498400000	1498300000	1788820000	1772220000	1497600000	

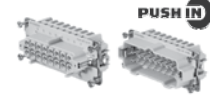
HE 6 6-pole, 500 V, 16 A, size 3						
	Female insert	Male insert	Bulkhead housing	Cable glands	Hood-Cable Entry: Top	Hood-Cable Entry: Sideways
Metal Housing						
M20	1200200000	1200000000	1202100000	1772220000	1788120000	1788100000

HE 10 10-pole, 500 V, 16 A, size 4						
	Female insert	Male insert	Bulkhead housing	Cable glands	Hood-Cable Entry: Top	Hood-Cable Entry: Sideways
Metal Housing						
M20	1204100000	1203900000	1205000000	1772220000	1787600000	1787560000

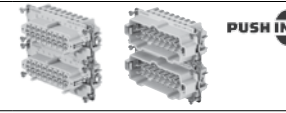
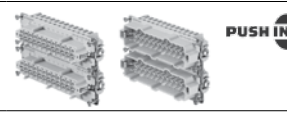
HE 16 16-pole, 500 V, 16 A, size 6						
	Female insert	Male insert	Bulkhead housing	Cable glands	Hood-Cable Entry: Top	Hood-Cable Entry: Sideways
Metal Housing						
M25	1207700000	1207500000	1208600000	1909920000	1788210000	1788180000

HE 24 24-pole, 500 V, 16 A, size 8						
	Female insert	Male insert	Bulkhead housing	Cable glands	Hood-Cable Entry: Top	Hood-Cable Entry: Sideways
Metal Housing						
M32	1211300000	1211100000	1212400000	1909930000	1786830000	1786770000

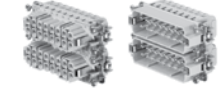
HE Series	HE-Size 3	HE-Size 4	HE-Size 6	HE-Size 8
No. of Poles	6 + 	10 + 	16 + 	24 + 
Connection	Screw	Screw	Screw	Screw
				
Rated Current	24 A	16 A	16 A	16 A
Rated Voltage	500 V	500 V	500 V	500 V
Nominal Voltage to UL/CSA	600 V	600 V	600 V	600 V
Clamping Range	0.5 – 2.5 mm ²	0.5 – 2.5 mm ²	0.5 – 2.5 mm ²	0.5 – 2.5 mm ²
Order No (Female)	1200200000	1204100000	1207700000	1211300000
Order No (Male)	1200000000	1203900000	1207500000	1211100000

HE Series	HE-Size 3	HE-Size 4	HE-Size 6	HE-Size 8
No. of Poles	6 + 	10 + 	16 + 	24 + 
Connection	Push In	Push In	Push In	Push In
				
Rated Current	24 A	16 A	16 A	16 A
Rated Voltage	500 V	500 V	500 V	500 V
Nominal Voltage to UL/CSA	600 V	600 V	600 V	600 V
Clamping Range	0.5 – 2.5 mm ²	0.5 – 2.5 mm ²	0.5 – 2.5 mm ²	0.5 – 2.5 mm ²
Order No (Female)	1873520000	1873540000	1873560000	1873580000
Order No (Male)	1873530000	1873550000	1873570000	1873590000

HE Series	HE-Size 3	HE-Size 4
No. of Poles	32 + 	48 + 
Connection	Screw	Screw
		
Rated Current	16 A	16 A
Rated Voltage	500 V	500 V
Nominal Voltage to UL/CSA	600 V	600 V
Clamping Range	0.5 – 2.5 mm ²	0.5 – 2.5 mm ²
Order No (Female)	1207700000 (1-16)	1211300000 (1-24)
Order No (Male)	1207500000 (1-16)	1211100000 (1-24)
Order No (Female)	1216100000 (17-32)	1221200000 (25-48)
Order No (Male)	1215700000 (17-32)	1220800000 (25-48)

HE Series	HE-Size 3	HE-Size 4
No. of Poles	32 + 	48 + 
Connection	Push In	Push In
		
Rated Current	16 A	16 A
Rated Voltage	500 V	500 V
Nominal Voltage to UL/CSA	600 V	600 V
Clamping Range	0.5 – 2.5 mm ²	0.5 – 2.5 mm ²
Order No (Female)	1873560000 (1-16)	1873580000 (1-24)
Order No (Male)	1875740000 (1-16)	1875850000 (1-24)
Order No (Female)	1873570000 (17-32)	1873590000 (25-48)
Order No (Male)	1875800000 (17-32)	1875890000 (25-48)

HA Series	HA-Size 1	HA-Size 1
No. of Poles	3 + 	4 + 
Connection	Screw	Screw
		
Rated Current	22 A	22 A
Rated Voltage	250 V	250 V
Nominal Voltage to UL/CSA	600 V	600 V
Clamping Range	0.5 – 2.5 mm ²	0.5 – 2.5 mm ²
Order No (Female)	1498200000	1498400000
Order No (Male)	1498100000	1498300000

HA Series	HA-Size 2	HA-Size 5	HA-Size 7
No. of Poles	10 + 	16 + 	32 + 
Connection	Screw	Screw	Screw
			
Rated Current	22 A	22 A	16 A
Rated Voltage	250 V	250 V	250 V
Nominal Voltage to UL/CSA	600 V	600 V	600 V
Clamping Range	0.5 – 2.5 mm ²	0.5 – 2.5 mm ²	0.5 – 2.5 mm ²
Order No (Female)	1650620000	1650780000	1650780000
Order No (Male)	1650610000	1650770000	1650770000
Order No (Female, 17-32)			1650900000
Order No (Male, 17-32)			1650880000

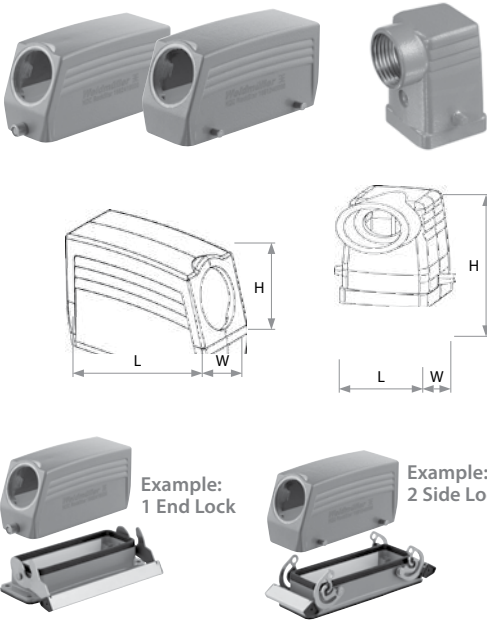
HSB Series	HSB-Size 6	HSB-Size 10
No. of Poles	6 + 	12 + 
Connection	Screw	Screw
		
Rated Current	35 A	35 A
Rated Voltage	400 V	400 V
Nominal Voltage to UL/CSA	600 V	600 V
Clamping Range *	0.5 – 2.5 mm ²	0.5 – 2.5 mm ²
Order No (Female)	1498900000	1498900000
Order No (Male)	1498700000	1498700000
Order No (Female, 17-32)		1499000000
Order No (Male, 17-32)		1498800000

*max. with wire end ferrule 4mm²

Housing hoods (metric) - SIDE CABLE ENTRY

Standard IP65 Housing - All Dimensions are in mm. M = Cable Entry						
Size	L	W	H	M	Order No. (1 Lock)	Order No. (2 Locks)
1	26.7	26.7	79.2	20	1788810000	
2	63	29.5	68	20	1788860000	
3	60	43	52	20	1788100000	
	60	43	52	25	1788090000	
4	73	43	52	20		1787560000
	73	43	52	25	1787580000	1787550000
5	79	29.5	58	25	1788740000	
6	93.3	43	61	25	1788200000	1788180000
7	82	56	75	25		1787960000
	82	56	75	25		1787950000
8	120	43	61	25	1787800000	1787760000
	120	43	76	32	1786810000	1786770000
10	94	83	79	32	1788420000	1788400000
12	132	90	94	40	1788310000	

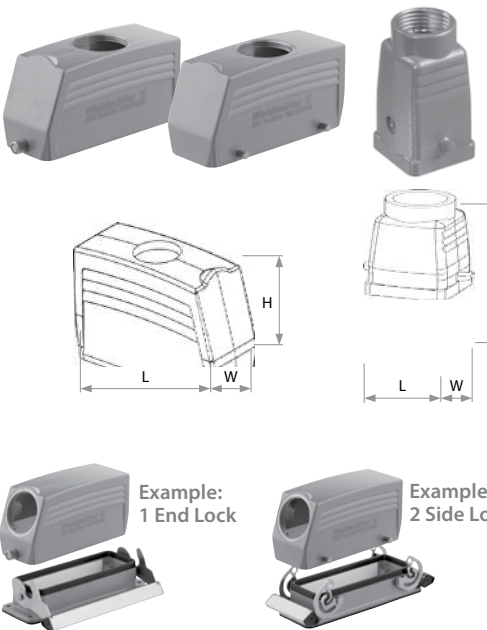
Note: Hoods come with sealing washer pre-fitted in the gland entries



Housing hoods (metric) - TOP CABLE ENTRY

Standard IP65 Housing - All Dimensions are in mm. M = Cable Entry						
Size	L	W	H	M	Order No. (1 Lock)	Order No. (2 Locks)
1	26.7	26.7	50	20	1788820000	
2	63	29.5	54	20	1788862000	
	63	29.5	54	25	1788610000	
3	60	43	52	20	1788120000	
	60	43	52	25	1788110000	
4	73	43	52	20		1787600000
	73	43	52	25	1787620000	
5	79	29.5	58	25	1788750000	
6	93.3	43	61	25	1788230000	1788210000
7	82	56	75	32		1787990000
8	120	43	61	25	1787860000	1787820000
	120	43	76	32	1786860000	1786830000
9	95	83	79	32	1788450000	1788430000
12	132	90	94	50	1788330000	

Note: Hoods come with sealing washer pre-fitted in the gland entries



Optional Accessories: Coupling Hoods (metric)

Standard IP65 Housing . M = Cable Entry			
Size	M	Order No. (1 Lock)	Order No. (2 Locks)
1	20	1788840000	
2	25	1788670000	
4	20	1787740000	1787720000
	20	1787730000	
5	25	1788800000	
6	25		1787200000
	32		1787190000
	25	1787220000	
7	25		1788080000
	32		1788070000
8	25		1787920000
	32		1786960000

Note: Hoods come with sealing washer pre-fitted in the gland entries



Housing hoods (metric) - BULKHEAD HOUSING

Standard IP65 Housing - All Dimensions are in mm.					
Size	L	W	H	Order No. (1 Lock)	Order No. (2 Locks)
1	28	30	23	1497600000	
2	84	32	25	1664040000	
	84	32	37.5	1664060000	
3	82	47	29	1202100000	
	82	47	47	1202500000	
4	95	47	29.3	1206100000	1205000000
	95	47	51.6	1206500000	
5	98	33	25	1664920000	
	98	33	44.5	1664940000	
6	115	47	29	1209700000	1208600000
	115	47	47	1210100000	
7	102	66	25		1665860000
8	143	47	29.3	1213900000	1212400000
	143	47	94	1214300000	
10	127	89	38	1219500000	1217800000
	127	89	55	1219800000	
12	168	97	62	1222900000	

Key: ² indicates with an integral cover

Housing hoods (metric) - BASE HOUSING with 1 or 2 Entries

Standard IP65 Housing - All Dimensions are in mm. M = 1 or 2 Cable Entries						
Size	L	W	H	M	Order No. (1 Lock)	Order No. (2 Locks)
1	40	82	25.8	1 x M20	1788830000	
2	80	50	57	1 x M20	1901100000	
	80	50	69.5	1 x M20	1901010000	
	80	50	57	1 x M25	1901160000	
	80	50	69.5	1 x M25	1901040000	
	80	50	57	2 x M20	1788640000	
	80	50	69.5	2 x M20	1788660000	
	80	50	57	2 x M25	1788630000	
	80	50	69.5	2 x M25	1788650000	
3	82	54.5	54	1 x M20	1900460000	
	82	54.5	72	1 x M20	1900360000	
	82	54.5	54	1 x M25	1900480000	
	82	54.5	72	1 x M25	1900380000	
	82	54.5	54	2 x M20	1788140000	
	82	54.5	72	2 x M20	1788170000	
	82	54.5	54	2 x M25	1788130000	
	82	54.5	72	2 x M25	1788160000	
4	92.5	53.5	57	1 x M20	1901620000	1901360000
	92.5	53.5	79.5	1 x M20	1901570000	
	92.5	53.5	57	1 x M25	1901640000	1901370000
	92.5	53.5	57	2 x M20	1787660000	1787640000
	92.5	53.5	79.5	2 x M20	1787700000	
	92.5	53.5	57	2 x M25	1787650000	1787630000
5	96	50	57	2 x M20	1788770000	
	96	50	76.5	2 x M20	1788790000	
	96	50	57	2 x M25	1788760000	
	96	50	76.5	2 x M25	1788780000	
6	117	56.5	64	1 x M25	1900170000	1899980000
	117	56.5	64	2 x M25	1788250000	1788240000
	117	56.5	82	2 x M25	1788270000	
7	106	64.5	75	1 x M25		1903870000
	106	64.5	75	2 x M25		1788040000
8	144	57.5	64	1 x M25	1901560000	1901150000
	144	57.5	86	1 x M25	1901480000	
	144	57.5	64	2 x M25	1787880000	1787870000
	144	57.5	86	2 x M25	1787900000	
10	126	92.5	79	1 x M32	1902670000	1902600000
	126	92.5	96	1 x M32	1902650000	
	126	92.5	79	2 x M32	1788470000	1788460000
	126	92.5	96	2 x M32	1788490000	
12	138	120	100	1 x M32	1904190000	
	138	120	120	1 x M32	1904150000	
	138	120	100	2 x M40	1788360000	

Key: ² indicates with an integral cover

Note: Only half glands required with base entries

SECTION 11



PUSH BUTTONS & SAFETY //



22mm HW Series - Non-Illuminated Push Buttons					
Round Flush		Plastic Bezel Momentary		Plastic Bezel Maintained	
	Contacts		Part Number		Part Number
	1 NO		HW1B - M1F10 - *		HW1B - A1F10 - *
	1 NC		HW1B - M1F01 - *		HW1B - A1F01 - *
	1 NO + 1 NC		HW1B - M1F11 - *		HW1B - A1F11 - *
	2 NO		HW1B - M1F20 - *		HW1B - A1F20 - *
	* Colour: G (Green), R (Red), S (Blue), W (White), Y (Yellow), B (Black)				
Note: Max 6 or 3 deep.					
Round Extended					
	1 NO		HW1B - M2F10 - *		HW1B - A2F10 - *
	1 NC		HW1B - M2F01 - *		HW1B - A2F01 - *
	1 NO + 1 NC		HW1B - M2F11 - *		HW1B - A2F11 - *
	2 NO		HW1B - M2F20 - *		HW1B - A2F20 - *
	* Colour: G (Green), R (Red), S (Blue), W (White), Y (Yellow), B (Black)				
	Note: Max 6 or 3 deep.				
Square Flush					
	1 NO		HW2B - M1F10 - *		HW2B - A1F10 - *
	1 NC		HW2B - M1F01 - *		HW2B - A1F01 - *
	1 NO + 1 NC		HW2B - M1F11 - *		HW2B - A1F11 - *
	* Colour: G (Green), R (Red), S (Blue), W (White), Y (Yellow), B (Black)				
	Note: Max 6 or 3 deep.				
	Square Extended				
	1 NO		HW2B - M2F10 - *		HW2B - A2F10 - *
	1 NC		HW2B - M2F01 - *		HW2B - A2F01 - *
	1 NO + 1 NC		HW2B - M2F11 - *		HW2B - A2F11 - *
	* Colour: G (Green), R (Red), S (Blue), W (White), Y (Yellow), B (Black)				
	Note: Max 6 or 3 deep.				
	Mushroom Head				
	1 NO		29mm mushroom head		HW1B - M3F10 - *
	1 NC		40mm mushroom head		HW1B - M4F10 - *
	1 NO + 1 NC		60mm mushroom head		HW1B - M5F11 - *
	* Colour: G (Green), R (Red), S (Blue), W (White), Y (Yellow), B (Black)				
	Note: Max 6 or 3 deep.				
	Round Flush				
			Metallic Bezel Momentary		Metallic Bezel Maintained
	1 NO		HW4B - M1F10 - *		HW4B - A1F10 - *
	1 NC		HW4B - M1F01 - *		HW4B - A1F01 - *
	1 NO + 1 NC		HW4B - M1F11 - *		HW4B - A1F11 - *
	2 NO		HW4B - M1F20 - *		HW4B - A1F20 - *
	* Colour: G (Green), R (Red), S (Blue), W (White), Y (Yellow), B (Black)				
Note: Max 6 or 3 deep.					
Round Extended					
	1 NO		HW4B - M2F10 - *		HW4B - A2F10 - *
	1 NC		HW4B - M2F01 - *		HW4B - A2F01 - *
	1 NO + 1 NC		HW4B - M2F11 - *		HW4B - A2F11 - *
	2 NO		HW4B - M2F20 - *		HW4B - A2F20 - *
	* Colour: G (Green), R (Red), S (Blue), W (White), Y (Yellow), B (Black)				
	Note: Max 6 or 3 deep.				



22mm HW Series Emergency Stop Switches			
40mm Head Pushlock Turn Reset 	Contacts		Bezel
	1 NC	Plastic Bezel	HW1B - V4F01 - R
	2 NC	Plastic Bezel	HW1B - V4F02 - R
	2 NC	Metallic Bezel	HW4B - V4F02 - R
	Note: Max 6 or 3 deep.		
29mm Head Pushlock Turn Reset 	1 NC	Plastic Bezel	HW1B - V3F01 - R
	2 NC	Plastic Bezel	HW1B - V3F02 - R
	2 NC	Metallic Bezel	HW4B - V3F02 - R
	Note: Max 6 or 3 deep.		
40mm Head Pushlock Key Reset 	1 NC	Plastic Bezel	HW1B - X4F01 - R
	2 NC	Plastic Bezel	HW1B - X4F02 - R
	2 NC	Metallic Bezel	HW4B - X4F02 - R
	Note: Max 6 or 3 deep.		
40mm Head Pushlock Pull Reset 	1 NC	Plastic Bezel	HW1B - Y2F01 - R
	2 NC	Plastic Bezel	HW1B - Y2F02 - R
	2 NC	Metallic Bezel	HW4B - Y2F02 - R
	Note: Max 6 or 3 deep.		
60mm Head Pushlock Turn Reset 	1 NC	Plastic Bezel	HW1B - V5F01 - R
	2 NC	Plastic Bezel	HW1B - V5F02 - R
	Note: Max 6 or 3 deep.		
22mm HW Series - Unibody Emergency Stop Switches			
Non-Illuminated			
	Contacts	Mushroom Head / Operation	Part Number
	1 NO + 1 NC	60mm Head / Pushlock Turn Reset	HW1E - BV411 - R
	2 NC	60mm Head / Pushlock Turn Reset	HW1E - BV402 - R
	1 NO + 2 NC	60mm Head / Pushlock Turn Reset	HW1E - BV412 - R
Illuminated			
	1 NO + 1 NC	40mm Head / Pushlock Turn Reset	HW1E - LV4F11QD - R - *
	2 NC	40mm Head / Pushlock Turn Reset	HW1E - LV4F02QD - R - *
	1 NO + 2 NC	40mm Head / Pushlock Turn Reset	HW1E - LV4F12QD - R - *



22mm HW Series - Illuminated Push Buttons

	Round Flush - 24V		Plastic Bezel Momentary	Plastic Bezel Maintained
	Contacts	Part Number	Part Number	Part Number
	1 NO	HW1L - M1F10QD - * -24V	HW1L - A1F10QD - * - 24V	
	1 NC	HW1L - M1F01QD - * -24V	HW1L - A1F01QD - * - 24V	
	1 NO + 1NC	HW1L - M1F11QD - * -24V	HW1L - A1F11QD - * - 24V	
Transformer units - LED & Incandescent				
1 NO		HW1L-M1F10-(2)(3) - (1)	HW1L - A1F10 - (2)(3) - (1)	
Round Extended				
	Full Voltage - lamp not included in price			
	1 NO	HW1L - M2F10 - (1)	HW1L - A2F10 - (1)	
	Transformer units - LED & Incandescent			
	1 NO	HW1L - M2F10-(2)(3) - (1)	HW1L - A2F10 - (2)(3) - (1)	
Round Full Shroud				
	Full Voltage - lamp not included in price			
	1 NO	HW1L - MF2F10 - (1)	HW1L - AF2F10 - (1)	
	Transformer units - LED & Incandescent			
	1 NO	HW1L - MF210-(2)(3) - (1)	HW1L - AF2F10 - (2)(3) - (1)	
Square Flush				
	Full Voltage - lamp not included in price			
	1 NO	HW2L - M1F10 - (1)	HW2L - A1F10 - (1)	
	Transformer units - LED & Incandescent			
	1 NO	HW2L - M1F10-(2)(3) - (1)	HW2L - A1F10 -(2)(3) - (1)	
Mushroom 40mm				
	Full Voltage - lamp not included in price			
	1 NO	HW1L - M4F10 - (1)	HW1L - A4F10 - (1)	
	Transformer units - LED & Incandescent			
	1 NO	HW1L - M4F10-(2)(3) - (1)	HW1L - A4F10 - (2)(3) - (1)	
	Note: for extra contact blocks refer Accessories			

	1. SPECIFY COLOUR OF LENS REQUIRED					
	Insert colour:	A (Amber)	GD (Green)	R (Red)	S (Blue)	W (White) Y (Yellow)
	2. SPECIFY INPUT VOLTAGE OF TRANSFORMER					
		H2 = 120V AC	M4 = 240V	T8 = 480V AC		
	3. SPECIFY LAMP TYPE					
		D = LED, BLANK = INCANDESCENT				

22mm HW Series - Non-Illuminated Push Buttons

2 Position		Plastic Bezel Momentary		Plastic Bezel Spring return from right	
	Contacts	Part Number		Part Number	
	1 NO	HW1S - 2TF10		HW1S - 21TF10	
	1 NO + 1 NC	HW1S - 2TF11		HW1S - 21TF11	
	2 NO	HW1S - 2TF20		HW1S - 21TF20	
		Metallic Bezel Momentary		Metallic Bezel Spring return from right	
	1 NO	HW4S - 2TF10		HW4S - 21TF10	
	1 NO + 1 NC	HW4S - 2TF11		HW4S - 21TF11	
	2 NO	HW4S - 2TF20		HW4S - 21TF20	
	Note: Lever operator is also available. Replace T with L.				
3 Position		Plastic Bezel Momentary		Plastic Bezel Spring return from right	
	1 NO + 1 NC	HW1S - 3TF11		HW1S - 31TF11	
	2 NO	HW1S - 3TF20		HW1S - 31TF20	
	2 NO + 2 NC	HW1S - 3TF22		HW1S - 31TF22	
	4 NO	HW1S - 3TF40		HW1S - 31TF40	
		Spring return from left		Spring return two-way	
	1 NO + 1 NC	HW1S - 32TF11		HW1S - 33TF11	
	2 NO	HW1S - 32TF20		HW1S - 33TF20	
	2 NO + 2 NC	HW1S - 32TF22		HW1S - 33TF22	
	4 NO	HW1S - 32TF40		HW1S - 33TF40	
3 Position		Metallic Bezel Momentary		Metallic Bezel Spring return from right	
	1 NO + 1 NC	HW4S - 3TF11		HW4S - 31TF11	
	2 NO	HW4S - 3TF20		HW4S - 31TF20	
	2 NO + 2 NC	HW4S - 3TF22		HW4S - 31TF22	
	4 NO	HW4S - 3TF40		HW4S - 31TF40	
		Spring return from left		Spring return two-way	
	1 NO + 1 NC	HW4S - 32TF11		HW4S - 33TF11	
	2 NO	HW4S - 32TF20		HW4S - 33TF20	
	2 NO + 2 NC	HW4S - 32TF22		HW4S - 33TF22	
	4 NO	HW4S - 32TF40		HW4S - 33TF40	
Note: Change contact mounting position on request.					

Non-Illuminated 3-5 pos Step Switch

	Positions	Operation	Contacts	Part Number
	3 position	Step switch	2NO + 1NC	HW1S - 3JTF21N1
	4 position	Step switch - no OFF	2NO + 2NC	HW1S - 4TF22N3
	5 position	Step switch - centre OFF	2NO + 2NC	HW1S - 5TF22N3



22mm HW Series - Illuminated Selector Switches				
	Positions	Operation	Contacts	Part Number
	2 position	Maintained, Full Voltage	no lamp	HW1F - 2F11Q - *
	2 position	Maintained, Transformer	120V	HW1F - 2F11QH2 - *
	2 position	Maintained, Transformer	240V	HW1F - 2F11QM4 - *
	1 NO + 1 NC			
	3 position	Maintained, Full Voltage	no lamp	HW1F - 3F11Q - *
	3 position	Maintained, Transformer	120V	HW1F - 3F11QH2 - *
	3 position	Maintained, Transformer	240V	HW1F - 3F11QM4 - *
	* Colour to be nominated: A (Amber), G (Green), R (Red), S (Blue), W (White), Y (Yellow)			
22mm HW Series - Key Switches				
	Positions	Operation	Contacts	Part Number
	2 position	Maintained	1 NO	HW1K - 2AF10
	2 position	Maintained	1NO+1NC	HW1K - 2AF11
	2 position	Maintained	2 NO	HW1K - 2AF20
	3 position	Maintained	2 NO	HW1K - 3AF20
	3 position	Spring Return from Right	2 NO	HW1K - 31BF20
	3 position	Spring Return from Left	2 NO	HW1K - 32CF20
	3 position	Spring Return 2 Way	2 NO	HW1K - 33DF20
22mm HW Series - Monolever Switches				
	Positions	Operation	Contacts	Part Number
	2 position	Maintained, up/down	2 NO	HW1M - F1010 - 20
	2 position	Spring Return, up/down	2 NO	HW1M - F2020 - 20
	2 position	Maintained, left/right	2 NO	HW1M - F0101 - 20
	2 position	Spring Return, left/right	2 NO	HW1M - F0202 - 20
	4 position	Maintained	2NO + 2NC	HW1M - F1111 - 22N9
	4 position	Spring Return to Centre	2NO + 2NC	HW1M - F2222 - 22N9
	Positions	Operation	Contacts	Part Number
	2 position	Maintained, up/down	2 NO	HW1M - LF1010 - 20
	2 position	Spring Return, up/down	2 NO	HW1M - LF2020 - 20
	2 position	Maintained, left/right	2 NO	HW1M - LF0101 - 20
	2 position	Spring Return, left/right	2 NO	HW1M - LF0202 - 20
	4 position	Maintained	2NO + 2NC	HW1M - LF1111 - 22N9
	4 position	Spring Return to Centre	2NO + 2NC	HW1M - LF2222 - 22N9



Non-Illuminated Push Buttons				
Round Flush				
 ABW	 AOW	Contacts	Momentary	Maintained
		1 NO	ABW110FN - *	AOW110FN - *
		1 NC	ABW101FN - *	AOW101FN - *
		1 NO + 1 NC	ABW111FN - *	AOW111FN - *
Round Extended				
		1 NO	ABW210FN - *	AOW210FN - *
		1 NC	ABW201FN - *	AOW201FN - *
		1 NO + 1 NC	ABW211FN - *	AOW211FN - *
Square Flush				
		1 NO	ABQW110FN - *	AOQW110FN - *
		1 NC	ABQW101FN - *	AOQW101FN - *
Square Extended				
		1 NO	ABQW210FN - *	AOQW210FN - *
		1 NC	ABQW201FN - *	AOQW201FN - *
		* Colour: B (Black), G (Green), R (Red), S (Blue), W (White), Y (Yellow)		
Mushroom Head				
	Contacts	Momentary		
	1 NO	ABW310FN - *	29mm mushroom head, momentary	
	1 NC	ABW301FN - *	29mm mushroom head, momentary	
	1 NO	ABW410FN - *	40mm mushroom head, momentary	
	1 NC	ABW401FN - *	40mm mushroom head, momentary	
		* Colour: B (Black), G (Green), R (Red), S (Blue), W (White), Y (Yellow)		
Special Function				
Mushroom Head				
	Contacts	Momentary, Non-Illuminated		
	1 NC	29mm E-Stop, Twist to Reset	AVW301N - R	
	1 NC	40mm E-Stop, Twist to Reset	AVW401N - R	
	1 NC	40mm Pushlock Key Reset	AXW401N - R	



22mm TW Series - Illuminated Push Buttons

Round Extended Lens				
		Momentary	Contacts	
	Low Voltage	ALW29911FN	1NO+1NC	w/o Lens or Lamp
	110 / 6V	ALW21611FN	1NO+1NC	with Lamp, but w/o Lens
	240 / 6V	ALW224611-TK392	1NO+1NC	with Lamp, but w/o Lens
	Lens	ALW2LU - *		
	* Colour: B (Black), G (Green), R (Red), S (Blue, W (White), Y (Yellow)			
Note: Engravable version available on request.				
Square Extended Lens				
		Momentary - 1NO + 1NC	Contacts	
	Low Voltage	ALQW2B9911FN	(without Lens or Lamp)	
	Lens	ALQW2BLU-*		
	* Colour: B (Black), G (Green), R (Red), S (Blue, W (White), Y (Yellow)			
Illuminated E-Stop / Twist to Reset				
	Low voltage	AVLW49902D-R-24	40mm with Lamp & non-marking lens	
	240 / 6V	AVLW49911FN	40mm without Lamp or Lens	
	Lens	AVLW4LU - *		
	Engravable lens available on request.			

22mm TW Series - Pilot Lights

Style				
	Supply Voltage		Flush	Dome
	Prices do not include Lens - refer below			with LED and Lens
	Low Voltage	APW199FN - * not incl lamp		APW299D - * - 24 (A,G,R,W)
	110 / 6V	APW116FN - * includes lamp		with Inc.lamp & Lens
	240 / 6V	APW1246FN - * c/w lamp		APW299 - * - 24
	Lens	APW1LU - *		refer to next page for Lamps
	* Insert colour: A (Amber), GD (Green), R (Red), S (Blue), W (White), Y (Yellow)			
	Engravable lens available on request.			
Square Flush				
	Low Voltage	APQW1B99 - TK392	Not including Lamp or Lens	
	Lens	APQW1BLU - *	refer to next page for Lamps	
	* Insert colour: A (Amber), GD (Green), R (Red), S (Blue), W (White), Y (Yellow)			

22mm TW Series - Non-Illuminated Selector Switches

	Positions	Operation	Contacts	Part Number
	2 position	Maintained	1 NO	ASW210FN
	2 position	Maintained - long lever	1 NO	ASW2L10FN
	2 position	Spring return from Right	1 NO	ASW2110FN
	2 position	Maintained	1NO + 1NC	ASW211FN
	3 position	Maintained	2 NO	ASW320FN
	3 position	Maintained - long lever	2 NO	ASW3L20FN
	3 position	Spring return from Right	2 NO	ASW3120FN
	3 position	Spring return from Left	2 NO	ASW3220FN
	3 position	Spring return L & R to centre	2 NO	ASW3320FN
	Note: Illuminated Selector switches available on request.			

22mm TW Series - Key Switches

	Positions	Operation	Contacts	Part Number
	2 position	Key out all positions	1 NO	ASW2K10FN
	2 position	Key out Left position only	1 NO	ASW2K10FN - RL
	3 position	Key out all positions	2 NO	ASW3K20FN
	3 position	Key out left position only	2 NO	ASW3K20FN - RL



22mm HW, TW and YW Series - Common Accessories

Accessories		
	Description	Part Number
	Locking Ring Wrench (HW Series)	MW9Z - T1
	Lamp Insertion/Removal Tool	OR - 55
	Metallic Mounting Hole Plug	LW9Z - BM
	Rubber Mounting Hole Plug	OB - 31
	Sw cover, spring return, Rnd/Sq Flush P'Buttons	HW9Z - K1
	Padlock Cover	HW9Z - KL1
	Flush Pushbutton clear boot	OC - 31
	Extended Pushbutton Clear boot	OC - 32
	Anti-Rotation ring	HW9Z - RL
Nameplates		
	Black plastic, round base, & blank engraving plate	HWAM - OB
	Yellow plastic engraved Emergency Stop (60mm)	HWAV - 27
	For all 22mm control units	
	Other nameplates available on application or Indent	

Lamps

Super Bright LED					
				Part Number	
	6V AC/DC	LED Lamp 5.5-8mA	BA9s	LSTD - 6 *	
	6V AC/DC	LED Lamp 5.5-8mA	BA9s	LSTD - 6S (Blue)	
	12V AC/DC	LED Lamp 10-11mA	BA9s	LSTD - 1 *	
	12V AC/DC	LED Lamp 10-11mA	BA9s	LSTD - 1S (Blue)	
	24V AC/DC	LED Lamp 10-11mA	BA9s	LSTD - 2 - *	
	24V AC/DC	LED Lamp 10-11mA	BA9s	LSTD - 2S (Blue)	
	120VAC	LED Lamp	BA9s	LSTD - H2 * (A, R, Y)	
	120VAC	LED Lamp	BA9s	LSTD - H2 * (G, W, S)	
	240VAC	LED Lamp	BA9s	LSTD - M4 * (A,R, Y)	
	240VAC	LED Lamp	BA9s	LSTD - M4 * (G, W, S)	
	* Insert colour: A (Amber), G (Green), R (Red), S (Blue), PW (White), Y (Yellow)				
	Economy LED				
	6V AC/DC	LED Lamp 7-10mA	BA9s	LSED - 6 *	
	12V AC/DC	LED Lamp 13-14mA	BA9s	LSED - 1 *	
	24V AC/DC	LED Lamp 13-14mA	BA9s	LSED - 2 *	
	110V AC/DC	LED Lamp 5.5mA	BA9s	LSED - H *	
	240VAC/DC	LED Lamp 2.7mA	BA9s	LSED - M3 *	
	* Insert colour: A (Amber), G (Green), R (Red), S (Blue), PW (White), Y (Yellow)				
Ultra Bright LED for Dome Lamps					
	24VDC	LED Lamp 15mA	BA9s	LSTDB - 2 * all colours except blue	
	24VDC	LED Lamp 15mA	BA9s	LSTDB - 2S Blue	
Incandescent					
	6V 1W	Incandecsent Lamp	BA9s	IS - 6	
	12V 1W	Incandecsent Lamp	BA9s	IS - 12	
	24V 1W	Incandecsent Lamp	BA9s	IS - 24	
	30V 1W	Incandecsent Lamp	BA9s	IS - 30	
	120V 1W	Incandecsent Lamp	BA9s	L - 120L	
	24V 2W	Incandecsent Lamp	E12 / 15	LE - 2 (indent)	
	30V 2W	Incandecsent Lamp	E12 / 15	LE - 3 (indent)	



Polycarbonate Enclosures for 22mm Switches and Pilot Devices (black base)

	Length	Mount Holes	Cover	Part Number
	76mm	None	Beige	FB1T - 000Z
		1 Hole	Yellow	FB1W - 111Y
		1 Hole	Beige	FB1W - 111Z
	140mm	None	Beige	FB2T - 000Z
		2 Hole (50mm hole centre)	Beige	FB2W - 211Z
		3 Hole (30mm hole centre)	Beige	FB2W - 312Z
		None	Beige	FB3T - 000Z
	200mm	3 Hole (50mm hole centre)	Beige	FB3W - 311Z
		4 Hole (36mm hole centre)	Beige	FB3W - 413Z
		5 Hole (36mm hole centre)	Beige	FB3W - 512Z

Accessories

	Description	Part Number
	External bracket for wall or panel mounting (1/Pkt)	FB9Z-PK1
	Internal bracket for mounting a DIN rail (2/Pkt)	FB9Z-PK3

Polycarbonate enclosure for 30mm Emergency Stop Switch (black base)

	Length	Mount Holes	Cover	Part Number
	90mm	1 Hole	Yellow	FPB1-3070-Y



22mm Switches and Pilot Devices

22mm CW Series - Flush Mount - IP65	2.5mm Projection when mounted on panel - Up to 3 contacts on protruding 39.9mm behind the panel - Operators made of durable resin for resistance to UV - Integrated push-turn locking lever for safety
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22mm CW Series - Non-Illuminated Push Buttons

Round Flush		Plastic Bezel Momentary		Plastic Bezel Spring return from right	
	Contacts	Part Number	Part Number		
	1 NO	CW1B - M1E10*	CW1B - A1E10*		
	1 NC	CW1B - M1E01*	CW1B - A1E01*		
	1 NO + 1 NC	CW1B - M1E11*	CW1B - A1E11*		
	2 NO	CW1B - M1E20*	CW1B - A1E20*		
	2 NC	CW1B - M1E02*	CW1B - A1E02*		
	2 NO + 1 NC	CW1B - M1E21*			
	1 NO + 2 NC	CW1B - M1E12*			
	3 NO	CW1B - M1E12*			
3 NC	CW1B - M1E03*				
Round Extended		Plastic Bezel Momentary		Plastic Bezel Maintained	
	1 NO	CW1B - M2E10*	CW1B - A2E10*		
	1 NC	CW1B - M2E01*	CW1B - A2E01*		
	1 NO + 1 NC	CW1B - M2E11*	CW1B - A2E11*		
	2 NO	CW1B - M2E20*	CW1B - A2E20*		
	2 NC	CW1B - M2E02*	CW1B - A2E02*		
	2 NO + 1 NC	CW1B - M2E21*			
	1 NO + 2 NC	CW1B - M2E12*			
	3 NO	CW1B - M2E30*			
	3 NC	CW1B - M2E03*			
Round Flush		Metallic Bezel Momentary		Metallic Bezel Maintained	
	1 NO	CW4B - M1E10*	CW4B - A1E10*		
	1 NC	CW4B - M1E01*	CW4B - A1E01*		
	1 NO + 1 NC	CW4B - M1E11*	CW4B - A1E11*		
	2 NO	CW4B - M1E20*	CW4B - A1E20*		
	2 NC	CW4B - M1E02*	CW4B - A1E02*		
	2 NO + 1 NC	CW4B - M1E21*			
	1 NO + 2 NC	CW4B - M1E12*			
	3 NO	CW4B - M1E30*			
	3 NC	CW4B - M1E03*			
Round Extended		Metallic Bezel Momentary		Metallic Bezel Maintained	
	1 NO	CW4B - M2E10*	CW4B - A2E10*		
	1 NC	CW4B - M2E01*	CW4B - A2E01*		
	1 NO + 1 NC	CW4B - M2E11*	CW4B - A2E11*		
	2 NO	CW4B - M2E20*	CW4B - A2E20*		
	2 NC	CW4B - M2E02*	CW4B - A2E02*		
	2 NO + 1 NC	CW4B - M2E21*			
	1 NO + 2 NC	CW4B - M2E12*			
	3 NO	CW4B - M2E30*			
	3 NC	CW4B - M2E03*			
* Colour: G (Green), R (Red), S (Blue), W (White), Y (Yellow), A (Amber)					



22mm CW Series - Illuminated Push Buttons				
	Round Flush		Plastic Bezel Momentary	Plastic Bezel Spring return from right
		Contacts		
	24V	1 NO	CW1L - M1E10Q4*	CW1L - A1E10Q4*
	24V	1 NC	CW1L - M1E01Q4*	CW1L - A1E01Q4*
	24V	1 NO + 1 NC	CW1L - M1E11Q4*	CW1L - A1E11Q4*
	24V	2 NO	CW1L - M1E20Q4*	CW1L - A1E20Q4*
	24V	2 NC	CW1L - M1E02Q4*	CW1L - A1E02Q4*
	240V AC	1 NO	CW1L - M1E10QM4*	CW1L - A1E10QM4*
	240V AC	1 NC	CW1L - M1E01QM4*	CW1L - A1E01QM4*
	240V AC	1 NO + 1 NC	CW1L - M1E11QM4*	CW1L - A1E11QM4*
	240V AC	2 NO	CW1L - M1E20QM4*	CW1L - A1E20QM4*
	* Colour: G (Green), R (Red), S (Blue), PW (White), Y (Yellow), A (Amber)			
	Round Extended		Plastic Bezel Momentary	Plastic Bezel Maintained
	24V	1 NO	CW1L - M2E10Q4*	CW1L - A2E10Q4*
	24V	1 NC	CW1L - M2E01Q4*	CW1L - A2E01Q4*
	24V	1 NO + 1 NC	CW1L - M2E11Q4*	CW1L - A2E11Q4*
	24V	2 NO	CW1L - M2E20Q4*	CW1L - A2E20Q4*
	24V	2 NC	CW1L - M2E02Q4*	CW1L - A2E02Q4*
	240V AC	1 NO	CW1L - M2E10QM4*	CW1L - A2E10QM4*
	240V AC	1 NC	CW1L - M2E01QM4*	CW1L - A2E01QM4*
	240V AC	1 NO + 1 NC	CW1L - M2E11QM4*	CW1L - A2E11QM4*
	240V AC	2 NO	CW1L - M2E20QM4*	CW1L - A2E20QM4*
	240V AC	2 NC	CW1L - M2E02QM4*	CW1L - A2E02QM4*
	* Colour: G (Green), R (Red), S (Blue), PW (White), Y (Yellow), A (Amber)			
	Round Flush		Metallic Bezel Momentary	Metallic Bezel Maintained
	24V	1 NO	CW4L - M1E10Q4*	CW4L - A1E10Q4*
	24V	1 NC	CW4L - M1E01Q4*	CW4L - A1E01Q4*
	24V	1 NO + 1 NC	CW4L - M1E11Q4*	CW4L - A1E11Q4*
	24V	2 NO	CW4L - M1E20Q4*	CW4L - A1E20Q4*
	24V	2 NC	CW4L - M1E02Q4*	CW4L - A1E02Q4*
	240V AC	1 NO	CW4L - M1E10QM4*	CW4L - A1E10QM4*
	240V AC	1 NC	CW4L - M1E01QM4*	CW4L - A1E01QM4*
	240V AC	1 NO + 1 NC	CW4L - M1E11QM4*	CW4L - A1E11QM4*
	240V AC	2 NO	CW4L - M1E20QM4*	CW4L - A1E20QM4*
	240V AC	2 NC	CW4L - M1E02QM4*	CW4L - A1E02QM4*
	* Colour: G (Green), R (Red), S (Blue), PW (White), Y (Yellow), A (Amber)			
	Round Extended		Metallic Bezel Momentary	Metallic Bezel Maintained
	24V	1 NO	CW4L - M2E10Q4*	CW4L - A2E10Q4*
	24V	1 NC	CW4L - M2E01Q4*	CW4L - A2E01Q4*
	24V	1 NO + 1 NC	CW4L - M2E11Q4*	CW4L - A2E11Q4*
	24V	2 NO	CW4L - M2E20Q4*	CW4L - A2E20Q4*
	24V	2 NC	CW4L - M2E02Q4*	CW4L - A2E02Q4*
	240V AC	1 NO	CW4L - M2E10QM4*	CW4L - A2E10QM4*
	240V AC	1 NC	CW4L - M2E01QM4*	CW4L - A2E01QM4*
	240V AC	1 NO + 1 NC	CW4L - M2E11QM4*	CW4L - A2E11QM4*
	240V AC	2 NO	CW4L - M2E20QM4*	CW4L - A2E20QM4*
	240V AC	2 NC	CW4L - M2E02QM4*	CW4L - A2E02QM4*
	* Colour: G (Green), R (Red), S (Blue), PW (White), Y (Yellow), A (Amber)			
	Note: For 6V AC/DC, replace Q4 with Q2. For 12V AC/DC, replace Q4 with Q3			



22mm CW Series - Pilot Lights			
	Round Flush Lens		
		Plastic Bezel	Metallic Bezel
		Part Number	Part Number
	Voltage		
	12V AC/DC	CW1P - 1EQ3*	CW4P - 1EQ3*
	24V AC/DC	CW1P - 1EQ4*	CW4P - 1EQ4*
	240V AC	CW1P - 1EQM4*	CW4P - 1EQM4*
	Round Dome Lens		
	12V AC/DC	CW1P - 2EQ4*	CW4P - 2EQ3*
	24V AC/DC	CW1P - 2EQ4*	CW4P - 2EQ4*
	240V AC	CW1P - 2EM4*	CW4P - 2EQM4*
* Colour: G (Green), R (Red), S (Blue), PW (White), Y (Yellow), A (Amber)			
For 6V AC/DC, replace Q4 with Q2			
22mm CW Series - Selector Switches			
	Knob Operator 2 Position		
		Plastic Bezel Maintained	Plastic Bezel Spring return from right
		Part Number	Part Number
	Contacts		
	1 NO	CW1S - 2E10	CW1S - 21E10
	1 NC	CW1S - 2E01	CW1S - 21E01
	1 NO + 1 NC	CW1S - 2E11	CW1S - 21E11
	2 NO	CW1S - 2E20	CW1S - 21E20
	2 NC	CW1S - 2E02	CW1S - 21E02
	2 NO + 1 NC	CW1S - 2E21	CW1S - 21E21
	1 NO + 2 NC	CW1S - 2E12	CW1S - 21E12
	3 NO	CW1S - 2E30	CW1S - 21E30
	3 NC	CW1S - 2E03	CW1S - 21E03
	Note: Lever operator is also available. Insert L before E in the knob part number		
	Knob Operator 2 Position		
		Metallic Bezel	Metallic Bezel Spring return from right
	1 NO	CW4S - 2E10	CW4S - 21E10
	1 NC	CW4S - 2E01	CW4S - 21E01
	1 NO + 1 NC	CW4S - 2E11	CW4S - 21E11
	2 NO	CW4S - 2E20	CW4S - 21E20
	2 NC	CW4S - 2E02	CW4S - 21E02
	2 NO + 1 NC	CW4S - 2E21	CW4S - 21E21
	1 NO + 2 NC	CW4S - 2E12	CW4S - 21E12
	3 NO	CW4S - 2E30	CW4S - 21E30
	3 NC	CW4S - 2E03	CW4S - 21E03
		Knob Operator 3 Position	
		Plastic Bezel Maintained	Plastic Bezel Spring return from right
1 NO + 1 NC		CW1S - 3E11	CW1S - 31E11
2 NO		CW1S - 3E20	CW1S - 31E20
2 NC		CW1S - 3E02	CW1S - 31E02
2 NO + 1 NC		CW1S - 3E21	CW1S - 31E21
1 NO + 2 NC		CW1S - 3E12	CW1S - 31E12
3 NO		CW1S - 3E30	CW1S - 31E30
3 NC		CW1S - 3E03	CW1S - 31E03
		Spring return from left	Spring return two-way
1 NO + 1 NC		CW1S - 32E11	CW1S - 33E11
2 NO		CW1S - 32E20	CW1S - 33E20
2 NC		CW1S - 32E02	CW1S - 33E02
2 NO + 1 NC		CW1S - 32E21	CW1S - 33E21
1 NO + 2 NC		CW1S - 32E12	CW1S - 33E12
3 NO		CW1S - 32E30	CW1S - 33E30
3 NC		CW1S - 32E03	CW1S - 33E03
Note: Change contact mounting position on request.			
Note: Lever operator is also available. Insert L before E in the knob part number			



22mm CW Control Units - Selector Switch - continued			
	Knob Operator 3 Position		
	Metallic Bezel Momentary		Metallic Bezel Spring return from right
	Contacts	Part Number	Part Number
	1 NO + 1 NC	CW4S - 3E11	CW4S - 31E11
	2 NO	CW4S - 3E20	CW4S - 31E20
	2 NC	CW4S - 3E02	CW4S - 31E02
	2 NO + 1 NC	CW4S - 3E21	CW4S - 31E21
	1 NO + 2 NC	CW4S - 3E12	CW4S - 31E12
	3 NO	CW4S - 3E30	CW4S - 31E30
	3 NC	CW4S - 3E03	CW4S - 31E03
	Spring return from left		Spring return two-way
	1 NO + 1 NC	CW4S - 32E11	CW4S - 33E11
	2 NO	CW4S - 32E20	CW4S - 33E20
	2 NC	CW4S - 32E02	CW4S - 33E02
	2 NO + 1 NC	CW4S - 32E21	CW4S - 33E21
	1 NO + 2 NC	CW4S - 32E12	CW4S - 33E12
	3 NO	CW4S - 32E30	CW4S - 33E30
	3 NC	CW4S - 32E03	CW4S - 33E03
	Note: Change contact mounting position on request.		
Note: Lever operator is also available. Insert L before E in the knob part number			
22mm CW Series - Key Switches			
	2 Position		
	Plastic Bezel Maintained		Plastic Bezel Spring return from right
	1 NO	CW1K - 2 * E10	CW1K - 21 B E10
	1 NC	CW1K - 2 * E01	CW1K - 21 B E01
	1 NO + 1 NC	CW1K - 2 * E11	CW1K - 21 B E11
	2 NO	CW1K - 2 * E20	CW1K - 21 B E20
	2 NC	CW1K - 2 * E02	CW1K - 21 B E02
	2 NO + 1 NC	CW1K - 2 * E21	CW1K - 21 B E21
	1 NO + 2 NC	CW1K - 2 * E12	CW1K - 21 B E12
	3 NO	CW1K - 2 * E30	CW1K - 21 B E30
	3 NC	CW1K - 2 * E03	CW1K - 21 B E03
	* insert key retained option:		A: Removable in all positions
			B: Removable in left only
			C: Removable in right only
	2 Position		
	Metallic Bezel Maintained		Metallic Bezel Spring return from right
	1 NO	CW4K - 2 * E10	CW4K - 21 B E10
	1 NC	CW4K - 2 * E01	CW4K - 21 B E01
	1 NO + 1 NC	CW4K - 2 * E11	CW4K - 21 B E11
	2 NO	CW4K - 2 * E20	CW4K - 21 B E20
	2 NC	CW4K - 2 * E02	CW4K - 21 B E02
	2 NO + 1 NC	CW4K - 2 * E21	CW4K - 21 B E21
	1 NO + 2 NC	CW4K - 2 * E12	CW4K - 21 B E12
	3 NO	CW4K - 2 * E30	CW4K - 21 B E30
	3 NC	CW4K - 2 * E03	CW4K - 21 B E03
	* insert key retained option:		A: Removable in all positions
			B: Removable in left only
			C: Removable in right only



22mm CW Control Units - Selector Switch - continued			
	3 Position		
	Contacts	Plastic Bezel Maintained Part Number	Plastic Bezel Spring return from right Part Number
	1 NO + 1 NC	CW1K - 3 * E11	CW1K - 31 * E11
	2 NO	CW1K - 3 * E20	CW1K - 31 * E20
	2 NC	CW1K - 3 * E02	CW1K - 31 * E02
	2 NO + 1 NC	CW1K - 3 * E21	CW1K - 31 * E21
	1 NO + 2 NC	CW1K - 3 * E12	CW1K - 31 * E12
	3 NO	CW1K - 3 * E30	CW1K - 31 * E30
	3 NC	CW1K - 3 * E03	CW1K - 31 * E03
		Spring return from left	Spring return two-way
	1 NO + 1 NC	CW1K - 32 * E11	CW1K - 33 D E11
	2 NO	CW1K - 32 * E20	CW1K - 33 D E20
	2 NC	CW1K - 32 * E02	CW1K - 33 D E02
	2 NO + 1 NC	CW1K - 32 * E21	CW1K - 33 D E21
	1 NO + 2 NC	CW1K - 32 * E12	CW1K - 33 D E12
	3 NO	CW1K - 32 * E30	CW1K - 33 D E30
	3 NC	CW1K - 32 * E03	CW1K - 33 D E03
	Note: Besides the standard key, six other keys are also available.		
	Note: Change contact mounting position on request.		
	* insert key retained option:		
	3 Position		
	1 NO + 1 NC	Metallic Bezel Momentary CW4K - 3 * E11	Metallic Bezel Spring return from right CW4K - 31 * E11
	2 NO	CW4K - 3 * E20	CW4K - 31 * E20
	2 NC	CW4K - 3 * E02	CW4K - 31 * E02
	2 NO + 1 NC	CW4K - 3 * E21	CW4K - 31 * E21
	1 NO + 2 NC	CW4K - 3 * E12	CW4K - 31 * E12
	3 NO	CW4K - 3 * E30	CW4K - 31 * E30
	3 NC	CW4K - 3 * E03	CW4K - 31 * E03
		Spring return from left	Spring return two-way
	1 NO + 1 NC	CW4K - 32 * E11	CW4K - 33 D E11
	2 NO	CW4K - 32 * E20	CW4K - 33 D E20
	2 NC	CW4K - 32 * E02	CW4K - 33 D E02
	2 NO + 1 NC	CW4K - 32 * E21	CW4K - 33 D E21
	1 NO + 2 NC	CW4K - 32 * E12	CW4K - 33 D E12
	3 NO	CW4K - 32 * E30	CW4K - 33 D E30
	3 NC	CW4K - 32 * E03	CW4K - 33 D E03
	Note: Besides the standard key, six other keys are also available.		
	Note: Change contact mounting position on request.		
	* insert key retained option: REMOVABLE IN:		
	A: all positions	B: left and center	C: right and center
	D: center only	E: right and left	G: left only
	H: right only		
Accessories for CW series			
	Locking Ring Wrench		MW9Z - T1
	Rubber Boot for flush buttons and pilot lights		CW9Z - D11
	Rubber Boot for extended buttons and dome pilot		CW9Z - D12
	Nameplate & insert (plastic)		CWAM - OB
	Note: Nameplate engraving available on request.		



16mm X Series Emergency Stop Switches with SAFE BREAK Contacts

16mm XA Series - Solder Terminal non-illuminated

	Contacts	Mushroom Head	Part Number
	1 NC	29mm	XA1E - BV301 - R
	2 NC	29mm	XA1E - BV302 - R
	3 NC	29mm	XA1E - BV303 - R
	2 NC	40mm	XA1E - BV402 - R
	4 NC	40mm	XA1E - BV404 - R
	1 NO + 1 NC	40mm	XA1E - BV411 - R
	1 NO + 3 NC	40mm	XA1E - BV413 - R

16mm X6 Series - Unibody, Solder Terminal

	1 NC	30mm Mushroom - Unmarked	AB6E - 3BV01PRH
	2 NC	30mm Mushroom - Unmarked	AB6E - 3BV02PRH
	1 NC	40mm Mushroom - Unmarked	AB6E - 4BV01PRH
	2 NC	40mm Mushroom - Unmarked	AB6E - 4BV02PRH
	1 NC	30mm Mushroom - Arrow Marked	AB6E - 3BV01PRH
	2 NC	30mm Mushroom - Arrow Marked	AB6E - 3BV02PRH
	1 NC	40mm Mushroom - Arrow Marked	AB6E - 4BV01PRH
	2 NC	40mm Mushroom - Arrow Marked	AB6E - 4BV02PRH

22mm X Series Emergency Stop Switches with SAFE BREAK Contacts

22mm XW Series - Screw Terminal Non-Illuminated

	Contacts	Mushroom Head	Part Number
	2 NC	40mm Mushroom - Non- Illuminated	XW1E - BV402M - R
	4 NC	40mm Mushroom - Non- Illuminated	XW1E - BV404M - R
	1 NO + 1 NC	40mm Mushroom - Non- Illuminated	XW1E - BV411M - R
	1 NO + 3 NC	40mm Mushroom - Non- Illuminated	XW1E - BV413M - R
	2 NO + 2 NC	40mm Mushroom - Non- Illuminated	XW1E - BV422M - R
	Note: Solder terminal / PC Board / Connector terminal types available		

	2 NC	60mm Mushroom - Non- Illuminated	XW1E - BV502M - R
	4 NC	60mm Mushroom - Non- Illuminated	XW1E - BV504M - R
	1 NO + 1 NC	60mm Mushroom - Non- Illuminated	XW1E - BV511M - R
	1 NO + 3 NC	60mm Mushroom - Non- Illuminated	XW1E - BV513M - R
	2 NO + 2 NC	60mm Mushroom - Non- Illuminated	XW1E - BV522M - R

Illuminated

	2 NC	40mm - Illuminated	XW1E - LV402Q4M - R
	4 NC	40mm - Illuminated	XW1E - LV404Q4M - R
	1 NO + 1 NC	40mm - Illuminated	XW1E - LV411Q4M - R
	1 NO + 3 NC	40mm - Illuminated	XW1E - LV413Q4M - R
	2 NO + 2 NC	40mm - Illuminated	XW1E - LV422Q4M - R
	1 NO + 2 NC	40mm Push-ON illuminated	XW1E - TV412Q4M - R
	Note: Solder terminal / PC Board / Connector terminal types available		

30mm X Series Emergency Stop Switches with SAFE BREAK Contacts

30mm XN Series - Padlockable E-Stop

	Contacts	Mushroom Head	Part Number
	2 NC	44mm Mushroom - Non-Illuminated	XN4E - BL402MRH
	4 NC	44mm Mushroom - Non-Illuminated	XN4E - BL404MRH
	2NC + 1NO	44mm Mushroom - Non-Illuminated	XN4E - BL412MRH
	3NC + 1NO	44mm Mushroom - Non-Illuminated	XN4E - BL413MRH
	2NC + 2NO	44mm Mushroom - Non-Illuminated	XN4E - BL422MRH
	2 NC	44mm Mushroom - Illuminated	XN4E - LL402Q4MR
	4 NC	44mm Mushroom - Illuminated	XN4E - LL404Q4MR
	2NC + 1NO	44mm Mushroom - Illuminated	XN4E - LL412Q4MR

	3NC + 1NO	44mm Mushroom - Illuminated	XN4E - LL413Q4MR
	2NC + 2NO	44mm Mushroom - Illuminated	XN4E - LL422Q4MR
	2 NC	44mm Mushrm -Push-ON Illuminated	XN4E - TL402Q4MR
	3 NC	44mm Mushrm -Push-ON Illuminated	XN4E - TL403Q4MR
	2NC + 1NO	44mm Mushrm -Push-ON Illuminated	XN4E - TL412Q4MR

30mm XN Series - Standard bezel type

Non-Illuminated

	2 NC	40mm Mushroom - Non-Illuminated	XN1E - BV402MRH
	4 NC	40mm Mushroom - Non-Illuminated	XN1E - BV404MRH
	2NC + 1NO	40mm Mushroom - Non-Illuminated	XN1E - BV412MRH
	2NC + 2NO	40mm Mushroom - Non-Illuminated	XN1E - BV422MRH
	2 NC	60mm Mushroom - Non-Illuminated	XN1E - BV502MRH
	4 NC	60mm Mushroom - Non-Illuminated	XN1E - BV504MRH

	2NC + 1NO	60mm Mushroom - Non-Illuminated	XN1E - BV512MRH
	2NC + 2NO	60mm Mushroom - Non-Illuminated	XN1E - BV522MRH

Illuminated

	2 NC	40mm Mushroom - Illuminated	XN1E - LV402Q4MR
	4 NC	40mm Mushroom - Illuminated	XN1E - LV404Q4MR
	2NC + 1NO	40mm Mushroom - Illuminated	XN1E - LV412Q4MR
	2NC + 2NO	40mm Mushroom - Illuminated	XN1E - LV422Q4MR

30mm XN Series - Flush bezel type

Non-Illuminated

	2 NC	40mm Mushroom - Non-Illuminated	XN5E - BV402MRH
	4 NC	40mm Mushroom - Non-Illuminated	XN5E - BV404MRH
	2NC + 1NO	40mm Mushroom - Non-Illuminated	XN5E - BV412MRH
	3NC + 1NO	40mm Mushroom - Non-Illuminated	XN5E - BV413MRH
	2NC + 2NO	40mm Mushroom - Non-Illuminated	XN5E - BV422MRH

Illuminated

	2 NC	40mm Mushroom - Illuminated	XN5E - LV402Q4MR
	4 NC	40mm Mushroom - Illuminated	XN5E - LV404Q4MR
	2NC + 1NO	40mm Mushroom - Illuminated	XN5E - LV412Q4MR
	3NC + 1NO	40mm Mushroom - Illuminated	XN5E - LV413Q4MR
	2NC + 2NO	40mm Mushroom - Illuminated	XN5E - LV422Q4MR



30mm Flush Bezel Emergency Stop Switches - continued			
Push-ON LED			
	Contacts	Mushroom Head	Part Number
	2 NC	40mm Mushrm - Push-ON Illuminated	XN5E - TV402Q4MR
	3 NC	40mm Mushrm - Push-ON Illuminated	XN5E - TV403Q4MR
	2NC + 1NO	40mm Mushrm - Push-ON Illuminated	XN5E - TV412Q4MR
Accessories for E-Stops			
Nameplates			
	Mount Hole		Part Number
	16mm	16mm Emergency Stop	HA AV - 27
	22mm	22mm Blank 60mm	HW AV - 0
	22mm	22mm Emergency Stop 60mm	HW AV - 27
	22mm	22mm Emergency Stop 80mm	HW AV5 - 27
	30mm	30mm Emergency Stop 60mm	HNAV - 27
Shrouds			
	Mount Hole		Part Number
	16mm	40mm Mushroom Head	XA9Z - KG1
	22mm	40mm Mushroom Head (64x80)	HW9Z - KG1
	22mm	40mm/60mm Mushroom Head	HW9Z - KG2
	22mm	40mm Mushroom Head (42x74)	HW9Z - KG3
	22mm	40mm Mushroom Head (50x90)	HW9Z - KG4
Miscellaneous			
	Term cover for Solder terminal models		XA9Z - VL2
	Anti-Rotation ring		HW9Z - RL
	Lockout Hasp		XN9Z - HASP421
	Locking Ring Wrench		XN9Z - T1
Enclosures			
	22mm E-Stop Enclosure- Yellow top with black base		FB1W - 111Y
	30mm E-Stop Enclosure- Yellow top with black base		FPB1 - 3070 - Y
Emergency Stop Stations with 22mm X Series E-Stop			
FB Enclosures with 22mm XW E-Stops Non-Illuminated			
	Contacts	Mushroom Head / Operation	Part Number
	2NC	40mm - Pushlock Pull / Turn Reset	FB1W - XW1E - BV402MR
	1NC/1NO	40mm - Pushlock Pull / Turn Reset	FB1W - XW1E - BV411MR
	2NC/2NO	40mm - Pushlock Pull / Turn Reset	FB1W - XW1E - BV422MR
	3NC/1NO	40mm - Pushlock Pull / Turn Reset	FB1W - XW1E - BV413MR
	4NC	40mm - Pushlock Pull / Turn Reset	FB1W - XW1E - BV404MR
Illuminated			
	2NC	40mm - Pushlock Pull / Turn Reset	FB1W - XW1E - LV402MR
	1NC/1NO	40mm - Pushlock Pull / Turn Reset	FB1W - XW1E - LV411MR
	2NC/2NO	40mm - Pushlock Pull / Turn Reset	FB1W - XW1E - LV422MR
	3NC/1NO	40mm - Pushlock Pull / Turn Reset	FB1W - XW1E - LV413MR
	4NC	40mm - Pushlock Pull / Turn Reset	FB1W - XW1E - LV404MR
Non-Illuminated with Nameplate			
	2NC	40mm - Pushlock Pull / Turn Reset	FB1W-XW1E-BV402-HWAV27
	1NC/1NO	40mm - Pushlock Pull / Turn Reset	FB1W-XW1E-BV411-HWAV27
	2NC/2NO	40mm - Pushlock Pull / Turn Reset	FB1W-XW1E-BV422-HWAV27
	3NC/1NO	40mm - Pushlock Pull / Turn Reset	FB1W-XW1E-BV413-HWAV27
	4NC	40mm - Pushlock Pull / Turn Reset	FB1W-XW1E-BV404-HWAV27



22mm HW Series Emergency Stop Switches			
40mm Head Pushlock Turn Reset			
	Contacts	Bezel	Part Number
	1 NC	Plastic Bezel	HW1B - V4F01 - R
	2 NC	Plastic Bezel	HW1B - V4F02 - R
	2 NC	Metallic Bezel	HW4B - V4F02 - R
	Note: Additional contacts available on request. Max 6 or 3 deep.		
29mm Head Pushlock Turn Reset			
	1 NC	Plastic Bezel	HW1B - V3F01 - R
	2 NC	Plastic Bezel	HW1B - V3F02 - R
	2 NC	Metallic Bezel	HW4B - V3F02 - R
	Note: Additional contacts available on request. Max 6 or 3 deep.		
40mm Head Pushlock Key Reset			
	1 NC	Plastic Bezel	HW1B - X4F01 - R
	2 NC	Plastic Bezel	HW1B - X4F02 - R
	2 NC	Metallic Bezel	HW4B - X4F02 - R
	Note: Additional contacts available on request. Max 6 or 3 deep.		
40mm Head Pushlock Pull Reset			
	1 NC	Plastic Bezel	HW1B - Y2F01 - R
	2 NC	Plastic Bezel	HW1B - Y2F02 - R
	2 NC	Metallic Bezel	HW4B - Y2F02 - R
	Note: Additional contacts available on request. Max 6 or 3 deep.		
60mm Head Pushlock Turn Reset			
	1 NC	Plastic Bezel	HW1B - V5F01 - R
	2 NC	Plastic Bezel	HW1B - V5F02 - R
	Note: Additional contacts available on request. Max 6 or 3 deep.		
22mm HW Series - Unibody Emergency Stop Switches			
Non-Illuminated			
	Contacts	Mushroom Head / Operation	Part Number
	1 NO + 1 NC	60mm Head / Pushlock Turn Reset	HW1E - BV411 - R
	2 NC	60mm Head / Pushlock Turn Reset	HW1E - BV402 - R
	1 NO + 2 NC	60mm Head / Pushlock Turn Reset	HW1E - BV412 - R
Illuminated			
	1 NO + 1 NC	40mm Head / Pushlock Turn Reset	HW1E - LV4F11QD - R - *
	2 NC	40mm Head / Pushlock Turn Reset	HW1E - LV4F02QD - R - *
	1 NO + 2 NC	40mm Head / Pushlock Turn Reset	HW1E - LV4F12QD - R - *



- 3000N Locking strength
- Energy saving design

HS1L - standard size Solenoid Interlock

	Circuit code	Spring Lock Mechanism	Solenoid Lock Mechanism
	R	HS1L - R44KMSR - *	HS1L - R7Y4KMSR - *
	DQ	HS1L - DQ44KMSR - *	HS1L - DQ7Y4KMSR - *
	DT	HS1L - DT44KMSR - *	HS1L - DT7Y4KMSR - *
	* nominate colour of LED: R (Red), G (Green)		

HS1E - standard size Solenoid Interlock

	Part Number
	Standard units without LED: Part No.s HS1E - 40R, -140R, -240R, -340R
	Standard units with LED: Part No.s HS1E - 44R*, -144R*, -244R*, -344R*
	With Manual Unlock Key without LED: Part No.s HS1E - 40KR, -140KR, 240KR, 340KR
	With Manual Unlock Key & LED: Part No.s HS1E - 44KR*, -144KR*, -244KR*, -344KR*
	* nominate colour of LED: R (Red), G (Green)

HS1C - standard size Solenoid Interlock - Die cast aluminium housing

	1NO + 1NC	Die cast aluminium housing	HS1B - 11R
	1NO + 1NC	Die cast aluminium housing with LED	HS1B - 114R - *
	2NC	Die cast aluminium housing	HS1B - 02R
	2NC	Die cast aluminium housing with LED	HS1B - 024R - *
	* nominate colour of LED: R (Red), G (Green)		

HS1B - standard size Interlock

	1NO + 1NC	Die cast aluminium housing	HS1B - 11R
	1NO + 1NC	Die cast aluminium housing with LED	HS1B - 114R - *
	2NC	Die cast aluminium housing	HS1B - 02R
	2NC	Die cast aluminium housing with LED	HS1B - 024R - *
	* nominate colour of LED: R (Red), G (Green)		

HS2B - standard size Interlock

	1NC + 1NO	Plastic housing	HS2B - 11NB
	1NC + 1NO	Plastic housing with LED	HS2B - 114NB *
	* nominate colour of LED: R (Red), G (Green)		

HS5D - miniature Interlock

		Plastic head, G1/2	Metal head, G1/2
	1NO + 1NC	HS5D -11RN	HS5D -11ZRN
	2NC	HS5D - 02RN	HS5D - 02ZRN
	2NC+1NO	HS5D - 12RN	HS5D - 12ZRN
	3NC	HS5D - 03RN	HS5D - 03ZRN



HS5E - miniature Solenoid Interlock

Main Circuit 1NC+1NC	Monitor circuit	Spring Lock Mechanism	Solenoid Lock Mechanism
	1NO, 1NC	HS5E - A4403 - G	HS5E - A7Y403 - G
	1NO, 1NC	HS5E - B4403 - G	HS5E - B7Y403 - G
	1NO, 1NC	HS5E - D4403 - G	HS5E - D7Y403 - G

HS6B - sub-miniature Interlock

		Description	Part Number
	1NC + 1NO	Plastic housing with fixed cable (1M)	HS6B - 11B01
	2NC	Plastic housing with fixed cable (1M)	HS6B - 02B01
	2NC + 1NO	Plastic housing with fixed cable (1M)	HS6B - 03B01
	3NC	Plastic housing with fixed cable (1M)	HS6B - 12B01

Series	Contacts	Part Number	Part Number
	Monitor circuit	Spring Lock Mechanism	Solenoid Lock Mechanism
	2NC / 1NO	HS6E - L44B03 - G	HS6E - L7Y4B03 - G
	2NC / 1NC	HS6E - M44B03 - G	HS6E - M7Y4B03 - G
	1NC, 1NO/1NO	HS6E - N44B03 - G	HS6E - N7Y4B03 - G
	1NC, 1NO/1NC	HS6E - P44B03 - G	HS6E - P7Y4B03 - G

Actuators

Main Circuit 1NC+1NC	Description	Part Number
	HS1/HS2, Straight key for sliding doors	HS9Z - A1
	HS1/HS2, L - Shaped key for rotating doors	HS9Z - A2
	HS1/HS2, Adjustable angle key	HS9Z - A3
	HS5B/HS5E, Straight key for sliding doors	HS9Z - A51
	HS5B/HS5E, L - Shaped key for hinged doors	HS9Z - A52
	HS5B/HS5E, Adjustable angle key	HS9Z - A55
	HS5B/HS5E, Plug Actuator	HS9Z - A5P
	HS5B/HS5E, Padlock Hasp	HS9Z - PH5
	HS5E Mounting Plate	HS9Z - SP51
	HS6B/HS6E, Straight key for sliding doors	HS9Z - A61
	HS6B/HS6E, L - Shaped key for hinged doors	HS9Z - A62
	HS6B/HS6E, Adjustable Actuator 90°	HS9Z - A65
	HS6B/HS6E, Adjustable Actuator 180°	HS9Z - A66
	Key wrench TORX head	HS9Z - T1
	Conduit Opening Plug	HS9Z - P1
	Replacement manual unlocking key	HS9Z - KEY1

Door Actuators

		HS5B/HS5E Door Handle Actuators -Right Hand	HS9Z-DH5RH
		HS5B/HS5E Door Handle Actuators -Left Hand	HS9Z-DH5LH
		HS5B/HS5E Sliding Door Actuator	HS9Z-SH5
		HS5B/HS5E Switch cover unit for door actuators	HS9Z-DH5C
		HS5B Installation kit for door actuators	HS9Z-DH5B
		Door actuator: rear unlocking button kit 20-30mm	HS9Z-FL53
		Door actuator: rear unlocking button kit 30-40mm	HS9Z-FL54



HS3A (RFID Coded Reed Switch)

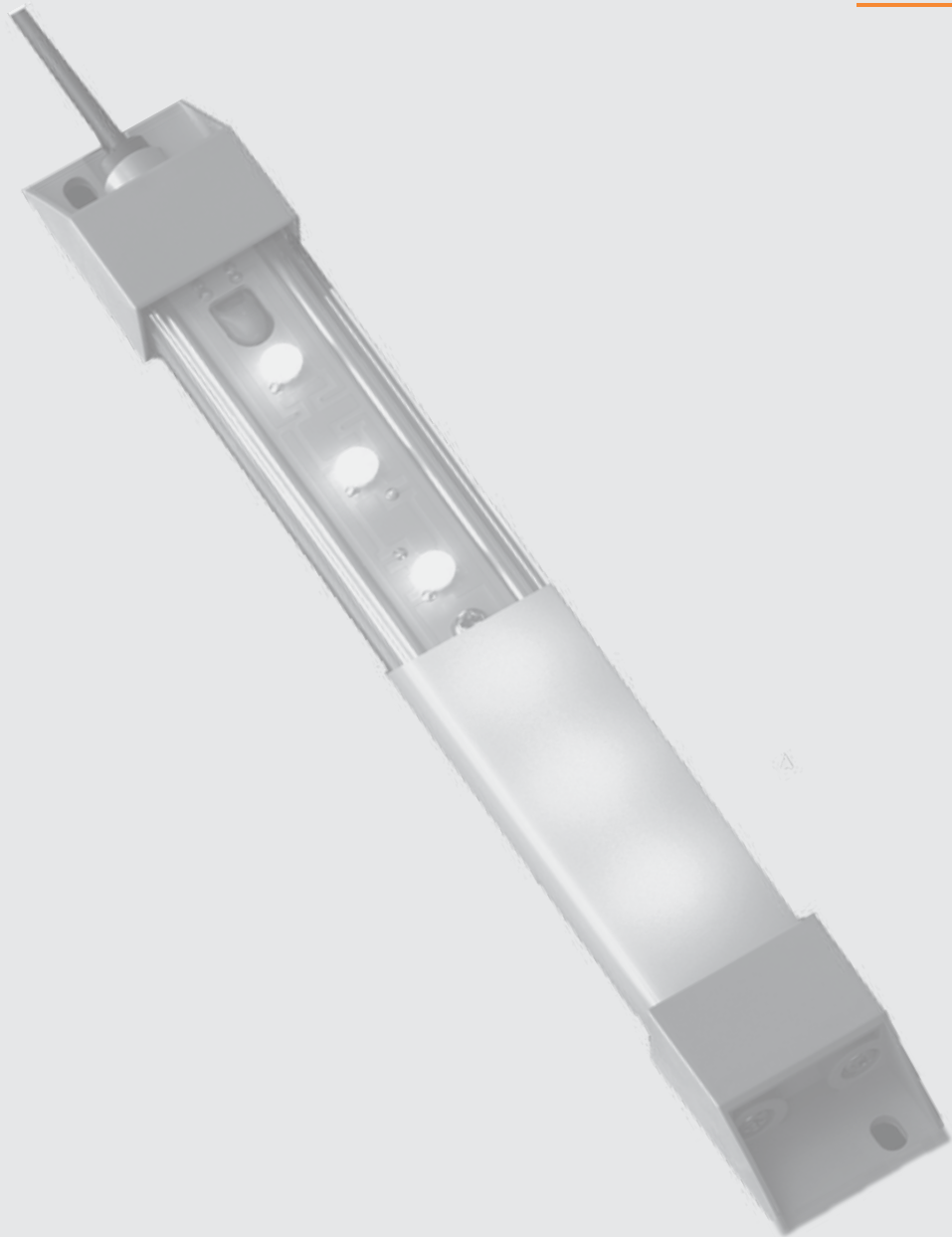
	Description	Part Number
	Multicode, 2 safety + 1 monitor output	HS3A - H21M4
	Unicode, 2 safety + 1 monitor output	HS3A - H21U4
	* Actuator is not supplied with the switch and must be ordered separately.	
Actuator for HS3A (Multicode and Unicode)		HS9Z - ZH31

Cables and Connectors

	Terminal Plug for serial connection	HS9Z - H3TP
	Y-branch connector for serial connection	HS9Z - H3YD
	8-pin M12 5m connection cable	HS9Z - H3F805
	8-pin M12 10m connection cable	HS9Z - H3F810
	5-pin M12 5m connection cable	HS9Z - H3F505
	5-pin M12 10m connection cable	HS9Z - H3F510
	5-pin M12 5m Serial connection cable	HS9Z - H3F5M05
	5-pin M12 10m Serial connection cable	HS9Z - H3F5M10

HS3A (RFID Coded Reed Switch)

	Description		Cable	Part Number
	1NO + 1NC	without LED	2M	HS7A - DMC5902
	1NO + 1NC	with LED	2M	HS7A - DMC5912
	1NO + 1NC	without LED	5M	HS7A - DMC5905
	1NO + 1NC	with LED	5M	HS7A - DMC5915
	1NO + 1NC	without LED	10M	HS7A - DMC59010
	1NO + 1NC	with LED	10M	HS7A - DMC59110
	2NO	without LED	2M	HS7A - DMC7902
	2NO	with LED	2M	HS7A - DMC7912
	2NO	without LED	5M	HS7A - DMC7905
	2NO	with LED	5M	HS7A - DMC7915
	2NO	without LED	10M	HS7A - DMC79010
	2NO	with LED	10M	HS7A - DMC79110
	1NO + 2NC	without LED	2M	HS7A - DMC5002
	1NO + 2NC	with LED	2M	HS7A - DMC5012
	1NO + 2NC	without LED	5M	HS7A - DMC5005
	1NO + 2NC	with LED	5M	HS7A - DMC5015
	2NO + 1NC	without LED	2M	HS7A - DMC7002
	2NO + 1NC	with LED	2M	HS7A - DMC7012
	2NO + 1NC	without LED	5M	HS7A - DMC7005
	2NO + 1NC	with LED	5M	HS7A - DMC7015



SECTION 12



LED LIGHTING & SIGNALLING //



40mm x 60mm LD6A Series Light Towers

	• Highly visible striped design		• Adjustable 3.3Khz alarm
	• Five different mounting styles		• 24V AC/DC
	• Clear lens options for higher distinction		
Mount Style / Type	Tiers	LED Colour Code	Part Number
Direct Mount/Steady			
	1	R, Y, S, G, W	LD6A - 1DQB - *
	2	RY, RG	LD6A - 2DQB - *
	3	RYS, RYG	LD6A - 3DQB - *
	4	RYSG	LD6A - 4DQB - *
	5	RYSGW	LD6A - 5DQB - *
Direct Mount/Steady/Flashing/Alarm			
	1	R, Y, S, G, W	LD6A - 1DZQB - *
	2	RY, RG	LD6A - 2DZQB - *
	3	RYS, RYG	LD6A - 3DZQB - *
	4	RYSG	LD6A - 4DZQB - *
	5	RYSGW	LD6A - 5DZQB - *
Mount Style / Type	Tiers	LED Colour Code	Part Number
Pole Mount with round base/Steady			
	1	R, Y, S, G, W	LD6A - 1PQB - *
	2	RY, RG	LD6A - 2PQB - *
	3	RYS, RYG	LD6A - 3PQB - *
	4	RYSG	LD6A - 4PQB - *
	5	RYSGW	LD6A - 5PQB - *
Pole Mount with round base/Steady/Flashing/Alarm			
	1	R, Y, S, G, W	LD6A - 1PZQB - *
	2	RY, RG	LD6A - 2PZQB - *
	3	RYS, RYG	LD6A - 3PZQB - *
	4	RYSG	LD6A - 4PZQB - *
	5	RYSGW	LD6A - 5PZQB - *
* Specify colour: R (red), Y (yellow), S (blue), G (green), W (white)			
Mount Style / Type	Tiers	LED Colour Code	Part Number
Frame Mount/Steady			
	1	R, Y, S, G, W	LD6A - 1GQB - *
	2	RY, RG	LD6A - 2GQB - *
	3	RYS, RYG	LD6A - 3GQB - *
	4	RYSG	LD6A - 4GQB - *
	5	RYSGW	LD6A - 5GQB - *
Frame Mount/Steady/Flashing/Alarm			
	1	R, Y, S, G, W	LD6A - 1GZQB - *
	2	RY, RG	LD6A - 2GZQB - *
	3	RYS, RYG	LD6A - 3GZQB - *
	4	RYSG	LD6A - 4GZQB - *
	5	RYSGW	LD6A - 5GZQB - *
* Specify colour: R (red), Y (yellow), S (blue), G (green), W (white)			
* Clear lens type also available. Specify "C" after the LED colour code			
Note: Light grey colour housing types are available upon request.			
Note: Wall mount types and Pole mount w/ L-shape brackets available upon request			

Components / Spare parts for LD6A Light Tower

Base Module	Mount Style	Colour / Type	Part Number
	Direct Mount	Dark Grey / Steady	LD6A - 0DQB
	Direct Mount	Dark Grey / Steady/Flashing/Alarm	LD6A - 0DZQB
	Pole Mount	Dark Grey / Steady	LD6A - 0PQB
	Pole Mount	Dark Grey / Steady/Flashing/Alarm	LD6A - 0PZQB
	Frame Mount	Dark Grey / Steady	LD6A - 0GQB
	Frame Mount	Dark Grey / Steady/Flashing/Alarm	LD6A - 0GZQB
LED Module	Lens Colour	Illumination Colour / Lens Colour	Part Number
Dark Grey Base	Red	Red	LD9Z - 6ALB - R
	Yellow	Yellow	LD9Z - 6ALB - Y
	Green	Green	LD9Z - 6ALB - G
	Blue	Blue	LD9Z - 6ALB - S
	White	White	LD9Z - 6ALB - W
	Clear	Red	LD9Z - 6ALB - RC
	Clear	Yellow	LD9Z - 6ALB - YC
	Clear	Green	LD9Z - 6ALB - GC
	Clear	White	LD9Z - 6ALB - SC
	Clear	Red	LD9Z - 6ALB - WC
Accessories	Tiers	Description	Part Number
Center Screw Set	1	Centre screw with washer	LD9Z - 6AC1
	2	Center screw with washer	LD9Z - 6AC2
	3	Center screw with washer	LD9Z - 6AC3
	4	Center screw with washer	LD9Z - 6AC4
	5	Center screw with washer	LD9Z - 6AC5
Brackets		L-shaped Bracket	LD9Z - 6AK

70mm LT7 Series Light Towers

Base Units	Supply V	Operation / Function	Alarm	Part Number
	24VDC	Steady	no alarm	LT7B - D24
	24VDC	Flashing / Steady	cw alarm	LT7B - D24FB
	90-250VAC	Steady	no alarm	LT7B - A250
	90-250VAC	Flashing / Steady	cw alarm	LT7B - A250FB
LED Units	Supply V	Colour	Part Number	
	24VDC	Red	LT7A - R	
	24VDC	Amber Yellow	LT7A - Y	
	24VDC	Green	LT7A - G	
	24VDC	Blue	LT7A - S	
	24VDC	Clear/White	LT7A - C	
Strobe Modules	Supply V	Colour	Part Number	
	24VDC	Red	LT7A - XE - R	
	24VDC	Yellow	LT7A - XE - Y	
	24VDC	Green	LT7A - XE - G	
	24VDC	Blue	LT7A - XE - S	
	24VDC	Clear	LT7A - XE - C	
Accessories	Description	Part Number		
	Mounting Pole 12" with L-bracket	LT9Z - 7L		
	Mounting Pole 12" with Base Mount	LT9Z - 7T		
	90 deg angle mounting bracket	LT9Z - SZ007		
	Replacement Top Cover	LT9Z - HCLT7		
	Replacement O-ring gasket	LT9Z - ORINGLT7		
	Replacement M4 Mounting Nut	LT7Z - M4NUTSLT7		

LH Spider - IP67, NEMA 4X LED Surface Mount Indicators

Type	Operation	Colour	Cable	Part Number
Jumbo Dome - 66mm diameter				
	1 colour	Amber	1M	LH1D-D3HQ4C10A
	1 colour	Green	1M	LH1D-D3HQ4C10G
	1 colour	Cool White	1M	LH1D-D3HQ4C10PW
	1 colour	Red	1M	LH1D-D3HQ4C10R
	1 colour	Blue	1M	LH1D-D3HQ4C10S
	1 colour	Warm White	1M	LH1D-D3HQ4C10W
	1 colour	Yellow	1M	LH1D-D3HQ4C10Y
	2 colour	Amber / Green	1M	LH1D-D3HQ4C10AG
	2 colour	Amber / Cool White	1M	LH1D-D3HQ4C10APW
	2 colour	Amber / Warm White	1M	LH1D-D3HQ4C10AW
	2 colour	Green / Cool White	1M	LH1D-D3HQ4C10GPW
	2 colour	Green / Warm White	1M	LH1D-D3HQ4C10GW
	2 colour	Red / Green	1M	LH1D-D3HQ4C10RG
	2 colour	Red / Cool White	1M	LH1D-D3HQ4C10RPW
	2 colour	Red / Warm White	1M	LH1D-D3HQ4C10RW
	3 colour	Red / Green / Cool White	1M	LH1D-D3HQ4C10RGPW
	3 colour	Red / Green / Warm White	1M	LH1D-D3HQ4C10RGW

Type	Operation	Colour	Cable	Part Number
Dome - 37mm diameter				
	1 colour	Amber	1M	LH1D - D2HQ4C10A
	1 colour	Green	1M	LH1D - D2HQ4C10G
	1 colour	Red	1M	LH1D - D2HQ4C10R
	1 colour	Warm White	1M	LH1D - D2HQ4C10W
	1 colour	Cool White	1M	LH1D - D2HQ4C10PW
	1 colour	Blue	1M	LH1D - D2HQ4C10S
	2 colour	Red / Green	1M	LH1D - D2HQ4C10RG

Type	Operation	Colour	Cable	Part Number
Flat - 35 x 34mm				
	1 colour	Amber	1M	LH1D - H2HQ4C10A
	1 colour	Green	1M	LH1D - H2HQ4C10G
	1 colour	Red	1M	LH1D - H2HQ4C10R
	1 colour	Warm White	1M	LH1D - H2HQ4C10W
	1 colour	Cool White	1M	LH1D - H2HQ4C10PW
	1 colour	Blue	1M	LH1D - H2HQ4C10S
	2 colour	Red / Green	1M	LH1D - H2HQ4C10RG

*3m, 5m, and M12 cable types available upon request

Jumbo Dome Lights

Style	Part Number		Part Number
22mm x 60mm diameter			
		LED light source 24VDC	Incandescent, 24VDC
	Red	HW1P - 5Q4R	HW1P - 5Q7R
	Green	HW1P - 5Q4G	HW1P - 5Q7G
	Amber	HW1P - 5Q4A	HW1P - 5Q7A
	Yellow	HW1P - 5Q4Y	HW1P - 5Q7Y
	Blue	HW1P - 5Q4S	HW1P - 5Q7S
	White	HW1P - 5Q4W	HW1P - 5Q7W
	LSTDB-2 * Spare LED's all colours except Blue		LSB - 2PN02 Spare Inc.lamp
	LSTDB-2S Spare LED's Blue		
	for LED versions only		
Transformers:TWR512 110VAC,TWR522 240VAC			
* Colour to be nominated: A (Amber), G (Green), R (Red), S (Blue), W (White), Y (Yellow)			

LF1B-N Series LED Lights

				- Slim body LED illumination - Choice of clear or white cover - Degree of protection: IP65 - Supply Voltage: 24V DC		
Length	Cover	Illumination Colour		Cable	Part Number	
134mm	Clear	Select colour option and append the colour code to the part number in place of *		1m	LF1B - NA3P - * - 1M	
134mm	Clear			3m	LF1B - NA3P - * - 3M	
134mm	White			1m	LF1B - NA4P - * - 1M	
134mm	White			3m	LF1B - NA4P - * - 3M	
210mm	Clear			1m	LF1B - NB3P - * - 1M	
210mm	Clear			3m	LF1B - NB3P - * - 3M	
210mm	White			Options:	1m	LF1B - NB4P - * - 1M
210mm	White			White:	2THWW2	
330mm	Clear	Warm White:	2TLWW2		LF1B - NC3P - * - 1M	
330mm	Clear	Green:	2SHG2		LF1B - NC3P - * - 3M	
330mm	White	Yellow:	2SHY2		LF1B - NC4P - * - 1M	
330mm	White	Red:	2SHR2		LF1B - NC4P - * - 3M	
580mm	Clear	Blue:	2THS2		LF1B - ND3P - * - 1M	
580mm	Clear			3m	LF1B - ND3P - * - 3M	
580mm	White			1m	LF1B - ND4P - * - 1M	
580mm	White			3m	LF1B - ND4P - * - 3M	
830mm	Clear			1m	LF1B - NE3P - * - 1M	
830mm	Clear			3m	LF1B - NE3P - * - 3M	
830mm	White			1m	LF1B - NE4P - * - 1M	
830mm	White			3m	LF1B - NE4P - * - 3M	
1,080mm	Clear			1m	LF1B - NF3P - * - 1M	
1,080mm	Clear			3m	LF1B - NF3P - * - 3M	
1,080mm	White			1m	LF1B - NF4P - * - 1M	
1,080mm	White			3m	LF1B - NF4P - * - 3M	
Angle Adjustable Bracket for LF1B illum Unit (0 to 90 degrees)					LF9Z - 1MB1	

LF2B Series LED Lights

		12/24V DC or 100-240V AC - Flexible mounting options - Degree of protection: IP65		
Length	Voltage	Cover	Cable	Part Number
210mm	100-240VAC	Clear	1m	LF2B - B3P - ATHWW2 - 1M
		White	1m	LF2B - B4P - ATHWW2 - 1M
	12 / 24VDC	Clear	1m	LF2B - B3P - BTHWW2 - 1M
		White	1m	LF2B - B4P - BTHWW2 - 1M
330mm	100-240VAC	Clear	1m	LF2B - C3P - ATHWW2 - 1M
		White	1m	LF2B - C4P - ATHWW2 - 1M
	12 / 24VDC	Clear	1m	LF2B - C3P - BTHWW2 - 1M
		White	1m	LF2B - C4P - BTHWW2 - 1M
580mm	100-240VAC	Clear	1m	LF2B - D3P - ATHWW2 - 1M
		White	1m	LF2B - D4P - ATHWW2 - 1M
	12 / 24VDC	Clear	1m	LF2B - D3P - BTHWW2 - 1M
		White	1m	LF2B - D4P - BTHWW2 - 1M
830mm	100-240VAC	Clear	1m	LF2B - E3P - ATHWW2 - 1M
		White	1m	LF2B - E4P - ATHWW2 - 1M
1080mm	100-240VAC	Clear	1m	LF2B - F3P - ATHWW2 - 1M
		White	1m	LF2B - F4P - ATHWW2 - 1M

Accessories for LF2B

	Description	Part Number
	U-shaped mounting brackets (Supplied)	LF9Z - 1SB21
	L-shaped mounting brackets (Optional)	LF9Z - 1SB22
	Note: U-shaped mounting brackets are supplied with the LED lights	
	Note: At least two L-shaped brackets are required for all sizes.	

LF1D / LF2D Series LED Lights

	• SUS304 Stainless steel housing
	• Choice of reinforced glass or plastic
	• Optional Diffused lens for glare free light
	• Degree of protection: IP67 / IP67f / IP69K
	• 5m heat resistant cable, 24V DC

LF1D Surface Mount type

LED arrangement	Connection	Illumination surface	Rating	Part Number
10 LEDs x 1 row	Side	Glass, Clear	IP69K	LF1D - E2F - 2W - A
10 LEDs x 1 row	Side	Glass, Diffused	IP69K	LF1D - E9F - 2W - A
10 LEDs x 1 row	Side	Polycarbonate, Clear	IP69K	LF1D - E3G - 2W - A
10 LEDs x 1 row	Side	Polycarbonate, Diffused	IP69K	LF1D - E5G - 2W - A
7 LEDs x 2 rows	Side	Glass, Clear	IP69K	LF1D - F2F - 2W - A
7 LEDs x 2 rows	Side	Glass, Diffused	IP69K	LF1D - F9F - 2W - A
7 LEDs x 2 rows	Side	Polycarbonate, Clear	IP69K	LF1D - F3G - 2W - A
7 LEDs x 2 rows	Side	Polycarbonate, Diffused	IP69K	LF1D - F5G - 2W - A
7 LEDs x 2 rows	Back	Glass, Clear	IP69K	LF1D - E2F - 2W - 451
7 LEDs x 2 rows	Back	Polycarbonate, Clear	IP69K	LF1D - F3G - 2W - 451

LF2D Recessed Mount type

LED arrangement	Connection	Illumination surface	Rating	Part Number
10 LEDs x 1 row	Side	Glass, Clear	IP67f	LF2D - E2F - 2W - A
10 LEDs x 1 row	Side	Polycarbonate, Clear	IP67	LF2D - E3G - 2W - A
7 LEDs x 2 rows	Side	Glass, Clear	IP67f	LF2D - F2F - 2W - A
7 LEDs x 2 rows	Side	Glass, Diffused	IP67f	LF2D - F9F - 2W - A
7 LEDs x 2 rows	Side	Polycarbonate, Clear	IP67	LF2D - F3G - 2W - A
7 LEDs x 2 rows	Side	Polycarbonate, Diffused	IP67	LF2D - F5G - 2W - A
7 LEDs x 2 rows	Back	Glass, Clear	IP67f	LF2D - F2F - 2W - 450
7 LEDs x 2 rows	Back	Glass, Diffused	IP67f	LF2D - F9F - 2W - 450
7 LEDs x 2 rows	Back	Polycarbonate, Clear	IP67	LF2D - F3G - 2W - 450
7 LEDs x 2 rows	Back	Polycarbonate, Diffused	IP67	LF2D - F5G - 2W - 450

Accessories for LF1D

Optional mounting bracket for mounting flexibility. (0 to 90 degrees at 10 degrees interval)

	Description	Part Number
	Angle Bracket for LF1D-E	LF9Z - 1MDE1
	Angle Bracket for LF1D-F	LF9Z - 1MDF1
	Note: Standard mounting brackets are included in -A packages	

LF1D / LF2D Series LED Lights



- Glare and shadow free lighting in accordance with IEC62471
- 6 times life expectancy compared to Metal Halide
- Up to 68% energy savings
- Dimmable through built-in dimming circuit
- Comes standard with wiring junction box
- AC 100-240V

Voltage	Beam Angle	Equivalent Lighting	lx (8.5m)	Part Number
85W	50°	Mercury Vapour 250W	85	LG1H - A1HT104N05 - 1
85W	70°	Mercury Vapour 250W	60	LG1H - A2DT104N05 - 1
85W	50° at 20°	Mercury Vapour 250W	85	LG1H - A3HT104N05 - 1
85W	70° at 20°	Mercury Vapour 250W	60	LG1H - A4DT104N05 - 1
173W	50°	Mercury Vapour 400W	180	LG1H - A1HT108N05 - 1
173W	70°	Mercury Vapour 400W	125	LG1H - A2DT108N05 - 1
173W	50° at 20°	Mercury Vapour 400W	180	LG1H - A3HT108N05 - 1
173W	70° at 20°	Mercury Vapour 400W	125	LG1H - A4DT108N05 - 1
241W	50°	Metal Halide 400W	260	LG1H - A1HT112N05 - 1
241W	70°	Metal Halide 400W	180	LG1H - A2DT112N05 - 1
241W	50° at 20°	Metal Halide 400W	260	LG1H - A3HT112N05 - 1
241W	70° at 20°	Metal Halide 400W	180	LG1H - A4DT112N05 - 1
50cm chain for High Bay LED				LG9Z - W1

LF1E series - Freezer and Refrigerated display case LED

Supply Voltage: 24V DC

	Select lens option and append the lens code to the part number in place of *		
	Options:	No Lens:	Blank
		Condensing lens	A
		Dual lens:	B
	Length	Illumination	Part Number
	550mm	White	LF1E - B3S - 2N*
	550mm	Warm White	LF1E - B3S - 2L*
	808mm	White	LF1E - C3S - 2N*
	808mm	Warm White	LF1E - C3S - 2L*
	1066mm	White	LF1E - D3S - 2N*
	1066mm	Warm White	LF1E - D3S - 2L*
	1450mm	White	LF1E - E3S - 2N
	1450mm	Warm White	LF1E - E3S - 2N

LF1F series - Flat Panel LED

Cable: 300mm Supply Voltage: 24V DC

	Description	Part Number
	Flat Panel LED	LF1F - B4 - 2D3

AUTOMATION & SENSING //





Smart Relay			
Base Unit	Supply Volts	I/O Configuration	Part Number
		Input signal/type & Output	with RT Clock nominated
With Display			
	12 / 24V DC	8 in (DC-PNP), 4 relay out	FL1E - H12RCE with clock
	24V DC	8 in (DC-PNP), 4 (PNP) out	FL1E - H12SND
	24V AC/DC	8 in (AC/DC, NPN/PNP), 4 relay out	FL1E - H12RCA with clock
	100-240V ACDC	8 in (AC/DC, PNP), 4 relay out	FL1E - H12RCC with clock
Without Display			
	12 / 24V DC	8 in (DC-PNP), 4 relay out	FL1E - B12RCE with clock
	24V AC/DC	8 in (AC/DC, NPN/PNP), 4 relay out	FL1E - B12RCA with clock
	100-240V ACDC	8 in (AC/DC, PNP), 4 relay out	FL1E - B12RCC with clock
Expansion Modules			
	Supply Volts	I/O Configuration	Part Number
	12 / 24V DC	4 DC in, 4 relay out	FL1B - M08B2R2
	24VDC	4 DC in, 4 PNP out	FL1B - M08B1S2
	100-240V ACDC	4 AC/DC in, 4 relay out	FL1B - M08C2R2
	24V AC/DC	4 AC/DC in, 4 relay out	FL1B - M08D2R2
	12 / 24V DC	Analog Input Module - 2in (V & C)	FL1B - J2B2
	24VDC	Analog Output Module - 2out (V)	FL1D - K2B2
V & C = 0-10V and 0-20mA			
AS-Interface Module	30V DC	4 in / 4 out	FL1B - CAS2
LonWorks Module	24V AC/DC	16 in / 8 analogue in / 2 out	FL1B - CL1C12
Text Display			
	Description	Part Number	
	Text Display for FL1E	FL1E - RD1	
Accessories			
	Programming software - WindLGC		FL9Y - LP1CDW - V6
	Programming cable (USB)		FL1E - PC2
	Programming cable (RS232)		FL1A - PC1
	USB to RS232 Converter		FC4A - USB
	Memory cartridge, with user defined protection*		FL1E - PM4
	Memory cartridge, with user defined protection*		FL1C - PM3
	Battery Cartridge		FL1E - PB1
	Memory & Battery Cartridge		FL1E - PG1
	Cartridge Removal Tool		MT-101
	Note: FL1E-PM4 memory cartridge can be read by FL1E and FL1D series		
Note: FL1C-PM3 memory cartridge be read by FL1D and FL1C series			



Smart Axis					
Series		Part Number	Description	Notes	
SmartAXIS PROLITE					
	FT1A-B12RC	FT1A-H12RC	SmartAXIS 12I/O CPU AC power, with LCD	12I/O (8/4)	
		FT1A-B12RC	SmartAXIS 12I/O CPU AC power, No LCD	12I/O (8/4)	
		FT1A-H12RA	SmartAXIS 12I/O CPU DC power, with LCD	12I/O (8/4), 2-AIN	
		FT1A-B12RA	SmartAXIS 12I/O CPU DC power, No LCD	12I/O (8/4), 2-AIN	
		FT1A-H24RC	SmartAXIS 24I/O CPU AC power, with LCD	24I/O (16/8)	
	FT1A-H24RA	FT1A-B24RC	SmartAXIS 24I/O CPU AC power, No LCD	24I/O (16/8)	
		FT1A-H24RA	SmartAXIS 24I/O CPU DC power, with LCD	24I/O (16/8), 4-AIN	
		FT1A-B24RA	SmartAXIS 24I/O CPU DC power, No LCD	24I/O (16/8), 4-AIN	
		FT1A-H40RC	SmartAXIS 40I/O CPU AC power, with LCD	40I/O (24/16)	
		FT1A-B40RC	SmartAXIS 40I/O CPU AC power, No LCD	40I/O (24/16)	
	FT1A-B40RSA	FT1A-H40RKA	SmartAXIS 40I/O CPU DC power, with LCD	40I/O (24/16), 6-AIN	
		FT1A-B40RKA	SmartAXIS 40I/O CPU DC power, No LCD	40I/O (24/16), 6-AIN	
		FT1A-H40RSA	SmartAXIS 40I/O CPU DC power, with LCD	40I/O (24/16), 6-AIN	
		FT1A-B40RSA	SmartAXIS 40I/O CPU DC power, No LCD	40I/O (24/16), 6-AIN	
		FT1A-H48KC	SmartAXIS 48I/O CPU AC power, with LCD	48I/O (30/18)	
	FT1A-B48SA	FT1A-B48KC	SmartAXIS 48I/O CPU AC power, No LCD	48I/O (30/18)	
		FT1A-H48SC	SmartAXIS 48I/O CPU AC power, with LCD	48I/O (30/18)	
		FT1A-B48SC	SmartAXIS 48I/O CPU AC power, No LCD	48I/O (30/18)	
		FT1A-H48KA	SmartAXIS 48I/O CPU DC power, with LCD	48I/O (30/18), 8-AIN	
		FT1A-B48KA	SmartAXIS 48I/O CPU DC power, No LCD	48I/O (30/18), 8-AIN	
	FT1A-B48SA	FT1A-H48SA	SmartAXIS 48I/O CPU DC power, with LCD	48I/O (30/18), 8-AIN	
		FT1A-B48SA	SmartAXIS 48I/O CPU DC power, No LCD	48I/O (30/18), 8-AIN	
		SmartAXIS FT1A-Touch			
			FT1A-M12RAW	Monochrome Light Gray Bezel	12I/O (8/4), 2-AIN
			FT1A-M12RAB	Monochrome Dark Gray Bezel	12I/O (8/4), 2-AIN
FT1A-M12RAS	Monochrome Silver Bezel		12I/O (8/4), 2-AIN		
FT1A-C12RAW	Colour Light Gray Bezel		12I/O (8/4), 2-AIN		
FT1A-C12RAB	Colour Dark Gray Bezel		12I/O (8/4), 2-AIN		
FT1A-C12RAS	Colour Silver Bezel		12I/O (8/4), 2-AIN		
Accessories PROLITE					
	FT1A-PC1	Comm. Cartridge RS232C mini-DIN			
	FT1A-PC2	Comm. Cartridge RS485 mini-DIN			
	FT1A-PC3	Comm. Cartridge RS485 Terminal			
	FT1A-PM1	Memory Cartridge			
	FT9Z-PSP1PPN05	Mounting Hook			
Accessories FT1A-Touch					
	FT9Z-1D3PN05	Surface Sheet			
	FT9Z-1E3PN05	Protective Bezel			
	FT9Z-1A01	Rear mount Adapter			
	FT9Z-1T09	Communication Plag			
	FT9Z-1X03	Power Supply Terminals			
	HG9Z-4K2PN04	Mounting Bracket			
	HG9Z-XU1PN05	USB Cable lock			



Microsmart Pentra				
	•	Embedded Ethernet CPU	•	USB programming port
	•	Modbus TCP, RTU and ASCII	•	Integrated 100 KHz high speed I/O
	•	1MB user web page	•	Max. 512 I/Os
	•	Email/Text message alerts		
MICROSMART SERIES				
Series	Supply V	I/O Configuration	Part Number	
FC5A Pentra				
All-in-One - CPU	100-240VAC	10 I/O: 6 digital in, 4 relay out	FC5A - C10R2	
	100-240VAC	16 I/O: 9 digital in, 7 relay out	FC5A - C16R2	
	100-240VAC	24 I/O: 14 digital in, 10 relay out	FC5A - C24R2	
	24VDC	10 I/O: 6 digital in, 4 relay out	FC5A - C10R2C	
	24VDC	16 I/O: 9 digital in, 7 relay out	FC5A - C16R2C	
	24VDC	24 I/O: 14 digital in, 10 relay out	FC5A - C24R2C	
	12VDC	10 I/O: 6 digital in, 4 relay out	FC5A - C10R2D	
	12VDC	16 I/O: 9 digital in, 7 relay out	FC5A - C16R2D	
	12VDC	24 I/O: 14 digital in, 10 relay out	FC5A - C24R2D	
Slim - CPU	24VDC	16 I/O: 8 in, 6 relay + 2 NPN out	FC5A - D16RK1	
	24VDC	16 I/O: 8 in, 6 relay + 2 PNP out	FC5A - D16RS1	
	24VDC	32 I/O: 16 in, 16 NPN out	FC5A - D32K3	
	24VDC	32 I/O: 16 in, 16 PNP out	FC5A - D32S3	
	24VDC	12 I/O: 8 in, 4 NPN out, w Ethernet	FC5A - D12K1E	
	24VDC	12 I/O: 8 in, 4 PNP out, w Ethernet	FC5A - D12S1E	

Microsmart Pentra		
	Description	Part Number
	Separate Mounting - Expansion I/face Master	FC5A - EXM1M
	Separate Mounting - Expansion I/face Slave	FC5A - EXM1S
	Separate Mounting - Expansion I/face Slave Cable	FC5A - KX1C
	Integrated Mounting - Expansion Interface Module	FC5A - EXM2

Series		Supply V	I/O Configuration	Part Number
FC4A		100-240VAC	10 I/O: 6 digital in, 4 relay out	FC4A - C10R2
All-in-One - CPU		100-240VAC	16 I/O: 9 digital in, 7 relay out	FC4A - C16R2
		100-240VAC	24 I/O: 14 digital in, 10 relay out	FC4A - C24R2
		24VDC	10 I/O: 6 digital in, 4 relay out	FC4A - C10R2C
		24VDC	16 I/O: 9 digital in, 7 relay out	FC4A - C16R2C
		24VDC	24 I/O: 14 digital in, 10 relay out	FC4A - C24R2C
Slim - CPU		24VDC	20 I/O: 12 in, 6 relay + 2 NPN out	FC4A - D20RK1
		24VDC	20 I/O: 12 in, 6 relay + 2 PNP out	FC4A - D20RS1
		24VDC	20 I/O: 12 in, 8 NPN out	FC4A - D20K3
		24VDC	20 I/O: 12 in, 8 PNP out	FC4A - D20S3
		24VDC	40 I/O: 24 in, 16 NPN out	FC4A - D40K3
		24VDC	40 I/O: 24 in, 16 PNP out	FC4A - D40S3



Expansion modules for FC5A and FC4A Series			
	Input V	I/O Configuration	Part Number
Input modules			
	24V DC	8 point digital, Screw terminal	FC4A - N08B1
	24V DC	16 point digital, Screw terminal	FC4A - N16B1
	24V DC	16 point digital, MIL connector	FC4A - N16B3
	24V DC	32 point digital, MIL connector	FC4A - N32B3
	100-120V AC	8 point digital, Screw terminal	FC4A - N08A11
	Note: All-in-One 10 I/O & 16 I/O CPU's are not expandable.		
Note: 12VDC CPU's are not expandable.			
Output modules			
	I/O Configuration		Part Number
	8 point relay 1 NO, Screw terminals		FC4A - R081
	16 point relay 1 NO, Screw terminals		FC4A - R161
	8 point NPN, Screw terminals		FC4A - T08K1
	8 point PNP, Screw terminals		FC4A - T08S1
	16 point NPN, MIL connector		FC4A - T16K3
	16 point PNP, MIL connector		FC4A - T16S3
	32 point NPN, MIL connector		FC4A - T32K3
	32 point PNP, MIL connector		FC4A - T32S3
Combination I/O			
	8 I/O: 4 Digital input, 4 relay out, Screw terminals		FC4A - M08BR1
	24 I/O: 16 Digital in, 8 relay out, Wire clamp term.		FC4A - M24BR2
Analog modules			
	2 in, 1 out (Voltage / Current)		FC4A - L03A1
	2 in (Thermocouple / RTD), 1 out (Voltage / Current)		FC4A - L03AP1
	2 in (Voltage / Current).		FC4A - J2A1
	4 in (Voltage / Current / T°Couple / Res. Therm		FC4A - J4CN1
	8 in (Voltage / Current)		FC4A - J8C1
	8 in (Thermistor NTC/PTC) 12-bit resolution		FC4A - J8AT1
	2 out (Voltage / Current)		FC4A - K2C1
	1 out (Voltage / Current)		FC4A - K1A1
	4 out (Voltage / Current)		FC4A - K4A1
PID Modules			
	Relay output type x 2ch		FC5A - F2MR2
	Voltage / Current output type x 2ch		FC5A - F2M2
Communication Expansion Modules			
	Description		Part Number
	RS232 Module -Expandable up to 5 (FC5A only)		FC5A - SIF2
	RS485 Module -Expandable up to 5 (FC5A only)		FC5A - SIF4
Communication Modules for Slim type CPU			
	RS232 Module - MiniDIN		FC4A - HPC1
	RS485 Module - MiniDIN		FC4A - HPC2
	RS485 Module - Screw terminal		FC4A - HPC3
Communication Ports for All-in-One CPU			
	Optional RS232C Adapter Board - MiniDIN		FC4A - PC1
	Optional RS485 Adapter Board - MiniDIN		FC4A - PC2
	Optional RS485 Adapter Board - Screw terminal		FC4A - PC3



Remote Communications for FC5A and FC4A PLC		
	Description	Part Number
	Web Server Module	FC4A - ENET
	Netcomm 3G Cellular Network Router	INTC - 6908
Accessories for FC5A and FC4A PLC		
	Real Time Clock cartridge	FC4A - PT1
	Memory cartridge, 32K	FC4A - PM32
	Memory cartridge, 64K	FC4A - PM64
	Memory cartridge, 128K	FC4A - PM128
	HMI Base Module (Slim type CPU)	FC4A - HPH1
	HMI Module	FC4A - PH1
Breakout Modules		
	26 point I/O Terminal for Microsmart CPU	BX1D - S26A
	20 point I/O Terminal for I/O expansion modules	BX1D - S20A
	16 point Breakout module with relay output	BX7D - BT16A1T
	MIL I/O Terminal Cable - 26Core, 500mm (CPU)	FC9Z - H050B26
	MIL I/O Terminal Cable - 26Core, 1m (CPU)	FC9Z - H100B26
	MIL I/O Terminal Cable - 26Core, 2m (CPU)	FC9Z - H200B26
	MIL I/O Terminal Cable - 26Core, 3m (CPU)	FC9Z - H300B26
	MIL I/O Terminal Cable - 20Core, 500mm	FC9Z - H050B20
	MIL I/O Terminal Cable - 20Core, 1m	FC9Z - H100B20
	MIL I/O Terminal Cable - 20Core, 2m	FC9Z - H200B20
	MIL I/O Terminal Cable - 20Core, 3m	FC9Z - H300B20
	Note: Shielded cables are available on request	
Programming, Data Acquisition and Monitoring		
	AO - Programming Software for PLC & HG HMI	SW1A - W1C
	Programming Cable - PC(USB) to PLC(mini-B), 2m	HG9Z - XCM2A
	Programming Cable - PC(RS232) to PLC	HG9Z - XCM1A
	Programming Cable - PC(RS232) to PLC, 1.5m	FC2A - KC4C
	USB to RS232 Converter	FC4A - USB
	OPC Server connecting PC to a single PLC	WindSRV - 1
	OPC Server connecting PC to 4 PLC's	WindSRV - 4
	OPC Server connecting PC to any no. of PLC's	WindSRV - U
Programming Software and Cables for Previous PLC's		
	Programming & Monitoring Software WindLDR	FC9Y - LP2CDW
	Programming cable for Micro - 1	FC1A - CLA
	Programming cable for Micro - 3	FC2A - KC2
	Programming cable for Microsmart PLC wo USB	FC2A - KC4C



New High Performance HMI Series		
	• Bright (up to 800 cd/m2)	• Audio/Video features
	• Fast (RISC 400Mhz CPU)	• More than 7,000 graphic images
	• Expandable (up to 64 I/O)	• Portrait or Landscape
Panel Mount Touch Screens		
	Size & Description	Part Number
4.6" HG1F series		
	Monochrome, RS232	HG1F - SB22BF - *
	Monochrome, RS485/232	HG1F - SB22YF - *
	* Specify colour: B (Dark Grey), W (Light Grey), S (Silver)	
5.7" HG2G series		
	High Performance, 64K Clr SVGA, 24VDC, Eth	HG2G - 5FT22TF - *
	256 Clr QVGA, RS232C /485 /USB, 12/24VDC, Eth	HG2G - 5ST22TF - *
	256 Clr QVGA, RS232C /485 /USB, 12/24VDC	HG2G - 5ST22VF - *
	Monochrome QVGA, RS232C / RS485, Eth,24VDC	HG2G - SB22TF - *
	Monochrome QVGA, RS232C / RS485, Eth,12VDC	HG2G - SB21TF - *
	Monochrome QVGA, RS232C / 485, 24VDC	HG2G - SB22VF - *
	Monochrome QVGA, RS232C / 485, 12VDC	HG2G - SB21VF - *
	* Specify colour: B (Dark Grey), W (Light Grey), S (Silver)	
8.4" HG3G series		
	64K Clr SVGA, COMS/USB/LAN/Aud&Vid in,24VDC	HG3G - 8JT22MF- *
	64K Clr SVGA, COMS/USB/LAN/Aud out, 24VDC	HG3G - 8JT22TF - *
	* Specify colour: B (Dark Grey), W (Light Grey)	
10.4" HG3G series		
	64K Clr SVGA, COMS/USB/LAN/Aud&Vid in,24VDC	HG3G - AJT22MF - *
	64K Clr SVGA, COMS/USB/LAN/Aud out, 24VDC	HG3G - AJT22TF - *
	* Specify colour: B (Dark Grey), W (Light Grey)	
12.1" HG4G series		
	64K Clr SVGA, COMS/USB/LAN/Aud&Vid in,24VDC	HG4G - CJT22MF - *
	64K Clr SVGA, COMS/USB/LAN/Aud out, 24VDC	HG4G - CJT22TF - *
	* Specify colour: B (Dark Grey), W (Light Grey)	

Programming		
Software & Cables for programming		
	Description	Part Number
	AO - Programming Software for PLC & HG HMI	SW1A - W1C
	Programming Cable - USB mini-B, 2m	HG9Z - XCM2A
	Programming Cable for HG Touch Screens (RS232)	HG9Z - XCM1A
	USB to RS232 Converter	FC4A - USB
	Note: HG1F and HG2G monochrome models require HG9Z-XCM1A cable.	
Remote Communications for HG Touchscreens with Ethernet		
	Netcomm 3G Cellular Network Router	INTC - 6908



HG1F Cables to PLC			
PLC	Comm Type	Link Unit Used	Part Number
	RS-232	FC4A-PC1 or FC4A-HPC1	HG9Z - XC183
	RS-232	Built-in (8 pin Mini-Din)	FC4A - KC1CA
	RS-485	FC4A-PC3 or FC4A-HPC3	HG9Z - 1C131A
	RS-485	FC4A-PC2 or FC4A-HPC	HG9Z - 1C121A

HG1F Cables to PLC				
PLC	Comm Type	Link Unit Used	COM	Part Number
IDEC Microsmart	RS-232	Built-in, FC4A-PC1 / HPC1	COM 1	HG9Z - AC501
FC4A, FC5A	RS-232	Built-in, FC4A-PC1 / HPC1	COM 2	HG9Z - AC102
	RS-232	FC5A-SIF2	COM 2	HG9Z - AC312
	RS-485	FC4A-PC2 / HPC2	COM 2	HG9Z - AC172
	RS-485	FC4A-PC3 / HPC3	COM 1	HG9Z - AC502
	HG3F/4F to HG3G/4G conversion cable			HG9Z - XCT11
	HG9Z-XC275/HG9Z-XC295 can also be used for HGxG to IDEC PLC connection			
AB SLC 500	RS-232	Built-in Port	COM 1	HG9Z - AC504
SLC-5/03, 5/04, 5/05	RS-232	Built-in Port	COM 2	HG9Z - AC112
	DH-485	Built-in Port	COM 2	HG9Z - GWDF1DH485 - 5
AB Micrologix	RS-232	Built-in Port	COM 1	HG9Z - AC511
1000, 1200, 1500	RS-232	Built-in Port	COM 2	HG9Z - AC122
1500	RS-232	Built-in Port (9 Pin Dsub)	COM 1	HG9Z - AC505
1100, 1400	RS-232	Built-in Port	COM 1	HG9Z - AC518
	RS-232	Built-in Port	COM 2	HG9Z - AC152
AB ControlLogix	RS-232	Built-in Port	COM 1	HG9Z - AC503
5550, 5555	RS-232	Built-in Port	COM 2	HG9Z - AC142
AB CompactLogix	RS-232	Built-in Port	COM 1	HG9Z - AC503
1768, 1769	RS-232	Built-in Port	COM 2	HG9Z - AC142
AB FlexLogix	RS-232	Built-in Port	COM 1	HG9Z - AC503
1794-L33, 1794-L34	RS-232	Built-in Port	COM 2	HG9Z - AC142
Koyo Direct Logic 205	RS-232	D4-DCM	COM 1	HG9Z - AC506
D4-440	RS-422	Built-in Port	COM 1	HG9Z - AC507
D2-240	RS-422	Built-in Port	COM 1	HG9Z - AC508
Siemens S7-300	RS-485	Built-in Port	COM 1	HG9Z - AC510
Note: cables for other non-IDEC PLC are available upon request.				

I/O Expansion Accessories		
	Description	Part Number
	HG2G Mounting bracket for HG2F panel cutout	HG9Z - 2A1
	HG2G Mounting bracket for 156 x 123.5mm cutout	HG9Z - 2A2
	HG3G Expansion Module Clamp (short)	HG9Z - XJ1
	HG3G Expansion Module Clamp (long)	HG9Z - XJ2
	HGxG Expansion Module Clamp (17.6 to 41.1mm)	HG9Z - XJ3
	HGxG Expansion Module Clamp (47 to 68.8mm)	HG9Z - XJ4
	HGxG Expansion Module Clamp (70.1 to 93.9mm)	HG9Z - XJ5
	HG3G L-shaped terminal block connector (10-pole)	HG9Z - PMT10L
	HG3G L-shaped terminal block connector (11-pole)	HG9Z - PMT11L
Note: For I/O Expansion Modules, Refer to the FC4A/FC5A input/output modules on PLC section		



Accessories		
	Description	Part Number
	O/I Comms Link unit for HG series	HG9Z - 2G1
	SD memory card 2GB	HG9Z - XMS2
	USB Panel Mount Extension Cable-1m for USB A	HG9Z - XCE11
	USB Panel Mount Extension Cable-1m for USB mini-B	HG9Z - XCE21
	USB cable lock pin	HG9Z - XU1
Protective Sheet	For 4.6" HG1F (5 pcs)	HG9Z - 1D
	For 5.7" HG2G with UV resistance	HG9Z - 2D5
	For 8.4" HG3G with UV resistance	HG9Z - 3D8
	For 10.4" HG3G with UV resistance	HG9Z - 3DA2
	For 12.1" HG4G with UV resistance	HG9Z - 4DC
Mounting Clips	For HG1F and HG2G	SLD - K02
	For HG3G and HG4G	HG9Z - 4K2

Text Displays			
HG1X			
	No. of Lines & Description		Part Number
	2 line	16 characters, no supply required	HG1X - 252
	2 line	16 characters, 24VDC	HG1X - 222
	4 line	20 characters, no supply required	HG1X - 452
	4 line	20 characters, 24VDC	HG1X - 422
	8 line	20 characters, no supply required	HG1X - 822

Accessories		
	Description	Part Number
	Programming Software	Wind - MSG
	Cable - HG1X to PC	HG9Z - PC125A
	Cable - HG1X to Micro 3	HG9Z - SC125A
	Cable - HG1X to Micro3C / ONC / MicroSmart	HG9Z - SC125B
Previous Touchscreen Models		
	5.7" 256 Colour STN, RS232 / RS485, Ethernet	HG2G - SS22TF - W
	5.7" 256 Colour STN, RS232 / RS485	HG2G - SS22VF - W
	5.7" 256 Colour STN, RS232 / RS485, Ethernet, 12VDC	HG2G - SS21TF - W
	5.7" 256 Colour STN, RS232 / RS485, 12VDC	HG2G - SS21VF - W
Software		
	WindO/I-NV Software for HG Series Touch Screens	HG9Y - ZSS2W
	Multiple User License Software for HG1,2, 3 & 4	HG9Y - ZSS2W MUL

Lined area for notes.



SECTION 14



TEST &
MEASUREMENT//

Fluke Authorised Distributor



FLUKE PRODUCTS //

Part number	Description
Digital Multimeters	
Fluke-115	True RMS Multimeter
Fluke-117	Advanced Electrical True RMS Multimeter
Fluke-179	True RMS Multimeter with Backlight & Temperature Readings
Fluke-233	Remote Display Multimeter
Fluke-87-V	Industrial True RMS Multimeter
Fluke-289-FVF	True RMS Industrial Logging Multimeter with Trend Capture & Software Kit
Electrical Testers	
Fluke-T5-600	Electrical Tester 600V AC/DC
Fluke-T5-1000	Electrical Tester 1000V AC/DC
Fluke-T150	Voltage & Continuity Tester with LCD
Fluke-1ACA1 II	AC Voltage Detector 200-1000V
Multifunction Installation Testers	
Fluke-1652C	Electrical Installation Tester with Phase sequence Indicator
Fluke-1653B	Electrical Installation Tester with Autotest & PC Interface
Fluke-1654B	Electrical Installation Tester with RCD Type B and Extended Memory
Clamp Meters	
Fluke-324	400A AC Mid Size Clamp with AC/DC Volts
Fluke-365	200A True RMS AC/DC Clamp with Detachable Jaw
Fluke-373	600A True RMS AC Clamp Meter
Fluke-374	600A True RMS AC/DC Clamp Meter with iFlex capability
Fluke-375	600A True RMS AC/DC Clamp Meter with iFlex capability and low pass filter
Fluke-376	1000A True RMS AC/DC Clamp Meter with iFlex capability
Fluke-381	1000A True RMS AC/DC Remote Display Clamp Meter with iFlex capability
Infrared Windows	
FLK-050-CLKT	50mm Crystal LSF Sightglass with Kwik Twist
FLK-075-CLKT	75mm Crystal LSF Sightglass with Kwik Twist
FLK-075-CLKTO	75mm Indoor Crystal LSF Sightglass with Kwik Twist
FLK-100-CLKT	100mm Crystal LSF Sightglass with Kwik Twist
Insulation Testers	
Fluke-1503	Insulation Tester
Fluke-1507	Insulation Tester
Fluke-1577	Insulation Multimeter
Fluke-1587	Insulation Multimeter
Fluke-1550CKIT	5kV Megohmmeter
Fluke-1555KIT	10kV Megohmmeter

Other available Fluke Product Ranges



Fluke-199C
Portable Oscilloscopes



Fluke-707EX
Hazardous Area
Meters Testing



Fluke-754
Process Calibra-
tion Tools



Fluke-810
Vibration
Testing



Fluke-1625
Earth Resistance
Testing



Fluke-975 & 88V
HVAC & Automot-
ive Testing ability



Fluke-1735
Power Quality



Fluke-289C & TLK289
Software &
Accessories



Fluke-117/322
Combo Kits



Fluke-TiR32
Thermal Imaging

Amprobe Authorised Distributor



AMPROBE PRODUCTS //

Part number	Industry	Safety	Volts			Accuracy	TRMS		
Digital Multimeters									
AMP-AM-240	Industrial/Field Tech	CAT. III 600V	600V AC/DC		0.50%	NO			
AMP-34XR-A	Commercial/Industrial	CAT. III 600V	750V AC/1000V DC		0.50%	AC/DC			
AMP-AM-270	HVAC/Industrial	CAT. IV 600V - III 1000V	1000V AC/DC		0.50%	AC/DC			
AMP-AM-570	Industrial	CAT. IV 600V - III 1000V	1000V AC/DC		0.50%	AC/DC			
AMP-38XR-A	Industrial	CAT. IV 600V - III 1000V	750V AC/1000V DC		0.25%	AC/DC			
Part number	Industry	Safety	AC Amps	DC Amps	TRMS Amps	V AC	V DC	TRMS Volts	Jaw size
Clamp Meters									
AMP-AC75B	HVAC	CAT. III 600V	400.0 A, 600.0 A	400.0 A, 4000 µA	N/A	4.000 V, 40.00 V, 400.0 V, 750 V	4.000 V, 40.00 V, 400.0 V, 1000 V	NO	35mm
AMPACD-6TRPRO	Commercial/Industrial	CAT. III 600V	1000 A	N/A	Yes	600 V	600 V	Yes	45mm
AMP-ACDC100TR	Industrial	CAT. III 600V	400.0 A, 600.0 A	400.0 A, 1000.0 A	Yes	600 V	600 V	Yes	50mm
AMP-ACD-15TRMS	Industrial	CAT. III 600V	400.0 A, 2000.0 A	N/A	N/A	6.000 V, 60.00 V, 600.0 V	6.000 V, 60.00 V, 600.0 V	Yes	45mm
AMPACD-16TRPRO	Industrial	CAT. III 600V	40.0 A, 400.0 A, 1000 A	N/A	Yes	600.0 V	600.0 V	Yes	45mm
AMP-ACD-52NAV	Industrial	CAT. IV 600V - III 1000V	40.0A, 400.0 A, 1000 A	100 A, 600 A	Yes	600.0 V	600.0 V	Yes	45mm
Part number	Description	Industry	V AC	Temp. Range	Accuracy				
Electrical Testers									
AMP-VP-600SB	AC Voltage Detector	Residential/Commercial	70 - 440 V	N/A	N/A				
AMP-AMB-45	Insulation Resistance Tester	All applications	1000 V	N/A	N/A				
AMP-IR608A	Infrared Thermometer	HVAC	N/A	minus 18°C to 400°C	±2%				
AMP-TPP1-C1	Probe Thermometer (TPP1-C2 for flat surface contact)	HVAC/Industrial	N/A	minus 50°C to 250°C	±0.05%				



AMP-38XR-A

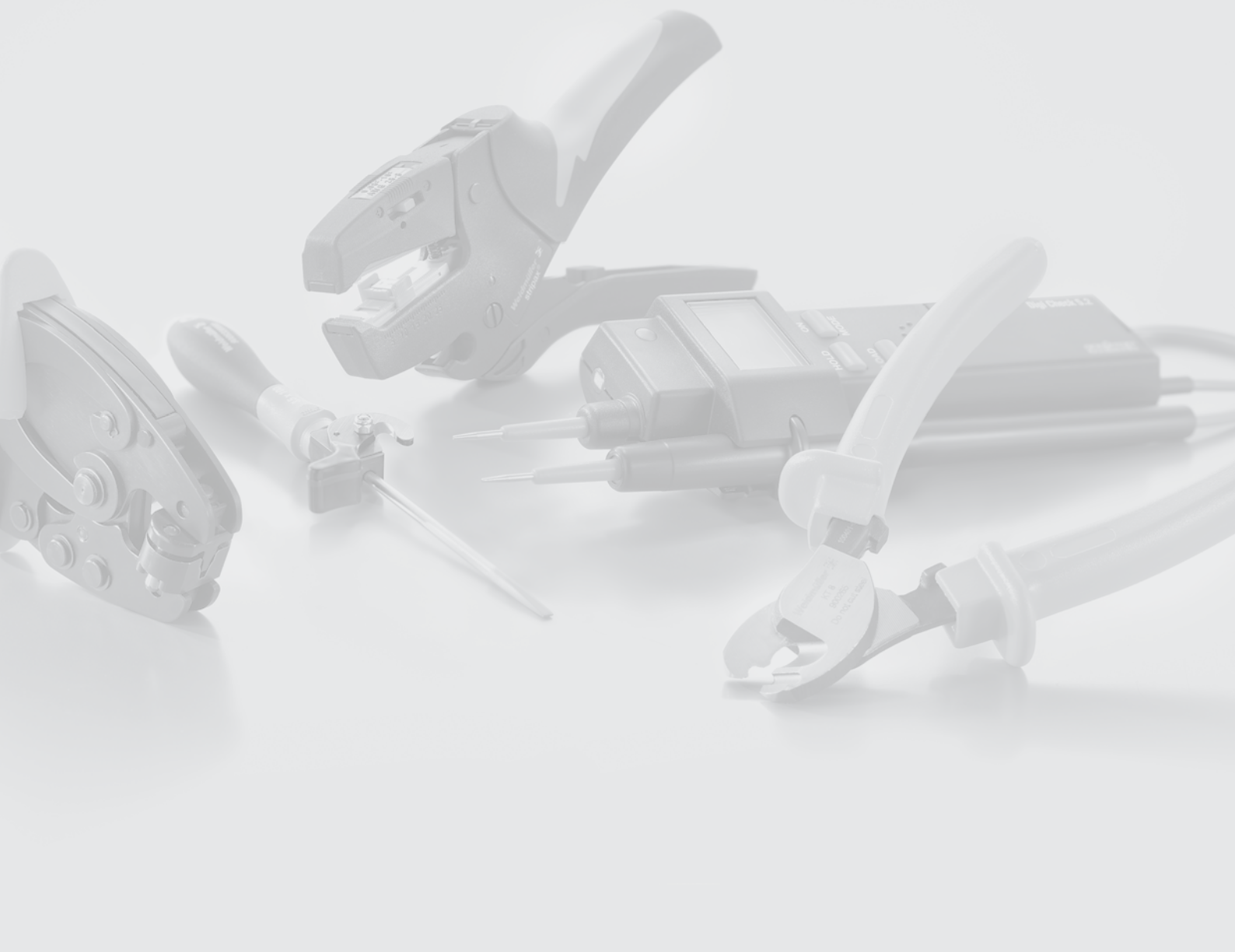


AMP-ACD-52NAV



AMP-IR608A

CSL PROVIDES FLUKE/AMPROBE AUTHORISED WARRANTIES AND GUARANTEES TECHNICAL/SERVICE/ CALIBRATION SUPPORT, FLUKE/AMPROBE TRAINING AND PARTNERSHIP PROGRAMMES.



SECTION 15

TOOLS

CUTTING TOOLS //

Part number	Description
9002650000	KT 8 Cable cutter cuts copper or aluminium up to 8mm diameter (16mm²)
1157820000	KT 14 Cable cutter cuts copper or aluminium up to 14mm diameter (70mm² flexible)
9202040000	KT 45 R Ratchet Large Cable cutter up to 45mm diameter (400mm² flexible)



KT 45 R

STRIPPING TOOLS //

Part number	Description
9001280000	Mini-Stripax stripping tool, conductors 0.2mm² - 1.21mm²
9005000000	Stripax – stripping & cutting – 0.08mm² - 6mm²
9020000000*	Stripax Plus – cuts, strips and crimps wire ferrules 0.5mm² - 2.5mm²
9030060000	AM 12 – stripping of UTP & STP data cables and other round flexible cables/leads outer insulation up to 12.5mm diameter
9204190000	AM 16 for stripping of round PVC cable sheaths 4-16mm diameter
9001540000	AM 25 for stripping of round PVC cable sheaths 6-25mm diameter
9001080000	AM 35 for stripping of round PVC cable sheaths 25-36mm diameter

*NOTE: Refer page 34 for the strip ferrules

CRIMPING TOOLS //

Part number	Description
9005990000	PZ 1.5 Crimping tool for ferrules 0.25 to 1.5mm²
9012500000	PZ 4 Ratchet crimping tool for ferrules 0.5 to 4mm²
9020000000	Stripax Plus – cuts, strips and crimps wire ferrules 0.5mm² - 2.5mm²
9014350000	PZ 6 Roto Ratchet crimping tool for ferrules 0.14 to 6mm² Unique rotatable crimp die for insertion of ferrules from the front or side
9012600000	PZ 16 Ratchet crimping tool for ferrules 6 to 16mm²



Stripax



AM 25



PZ 4 Ratchet



Stripax Plus



9008330000



9008450000

Swiftly set

SCREWDRIVERS // Recommended for use on Weidmüller rail mount terminals

Part number	Description
For use on disconnect terminals with socket screws	
9008450000	SDIZ 0.3 x 3.5mm blade
Specialist Uninsulated Slot-head Screwdrivers	
9008320000	SD 0.5 x 3.0mm blade
9008330000	SD 0.6 x 5.0mm blade
9008340000	SD 0.8 x 4.0mm blade
9008350000	SD 1.0 x 5.5mm blade
Swiftly Set Screwdriver & Cutter	
9006060000	Screwdriver & cutter combo all in one
Narrow Insulated Screwdrivers	
1274750000	- All screwdrivers are individually tested to 1000VAC - Slimline blade is 33% slimmer enabling you reach deeper inset fittings - Fully hardened high alloy, chromium-vanadium-molybdenum steel blade for ultimate service life.



CT-HD0510



CT-HD8L



CT-HD16L



CT-HD0650



CT-HD06120



CT-HYCP185 + DIES



CT-HYCP2612



CT-HYCP4013



CT-HEC32



CT-HYCP60ST

CRIMP TOOLS //

Item/Part No.	Description
CT-HD0510	
CT-HD8L	
CT-HD16L	
CT-HD0650	
CT-HD06120	
CT-HYCP185 + DIES	
CT-HYCP2612	
CT-HYCP4013	
CT-HEC32	
CT-HYCP60ST	

SHEARBOLT TOOLS & ACCESSORIES //

Item/Part No.	Description
WR18DL	Hitachi Cordless Wrench 18 Volts c/w battery and charger
WR5OCKET	Socket & Allen Key Set for WR18DL
IT1000020	Universal Holding Tool for Mechanical Connectors
ITL03116	Insulated Universal Holding Tool for Mechanical Connectors (adjustable)





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