Accelerate installation and service in confined spaces
Compact DRI relays with robust, industry-compliant plug-in pins
Let's connect.

Digital signal processing



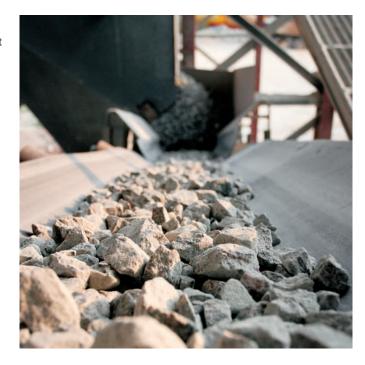
Accelerate installation and service in confined spaces

Compact DRI relays with robust, industry-compliant plug-in pins

In an industrial environment, service work needs to be carried out quickly, simply and reliably. Increasingly compact cabinets and miniaturised components in confined spaces are becoming a challenge. If components need to be replaced, the bended relay pins often cause errors which are difficult to locate.

As the handling of components in practice plays an increasingly important role, DRI relays have particularly robust plug-in pins for quick and safe mounting. The test button with final locking to detect manipulation can be actuated without tools. Easily visible LED illumination of the status indicator also allows clear determination of status.

Both during installation of the cabinets and during subsequent servicing in mechanical and plant construction, DRI relays are the optimum coupling element for confined installation conditions.



In quarrying operations or wind power plants: where the application gets the relays moving, a stable and reliable connection is required. In service cases, secure replacement with robust plug-in pins, simple handling using the test button and quick status identification by means of LED illumination.

Your special advantages:

Robust plug-in pins

Compact 1 and 2 CO contact relay with industry-compliant plug-in pins for reliable contacting, even in ambitious applications.



Secure status identification

The highly visible status LED with large-scale illumination ensures clear status recognition.

Support for installation and service

The user-friendly test button slots into the end position. This means any manipulation can be seen directly.



Variable connection

Bases with different screw connection systems are available for different regional requirements and conditions.



Simple error reduction

Clearly legible product recognition and colour coding of the test button reduce errors in installation and service.



The D-SERIES offers a range of industrial relays for loads of up to 400 V / 30 A with coils from 5 V DC to 380 V AC.





DRI relay

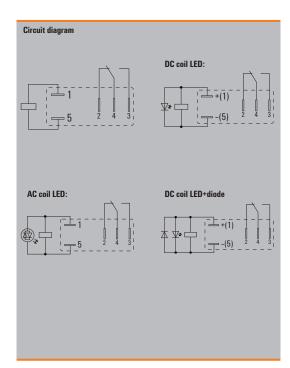
1 CO contact, AC/DC coil

- Robust industrial plug-in connections
- Optional: latching / spring return operable test button with coloured control voltage identification (AC coil: red / DC coil: blue)
- Optional: Mechanical switch position indication (for version with test button)
- Optional: Bright status LED (AC coil: red / DC coil: green)
- Optional: free-wheeling diode





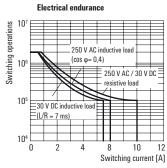




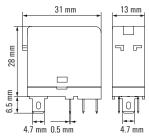
Technical data

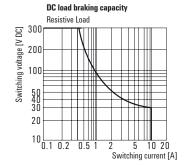
Output	
Rated switching voltage / Continuous current	250 V AC / 10 A
Max. switching voltage, AC	250 V
Inrush current	
Min. switching power	10 mA @ 12 V, 100 mA @ 5 V
DC / AC Switching capacity (resistive), max.	240 W @ 24 V / 2500 VA
Contact material	AgNi
Mechanical service life	10 x 10 ⁶ switching cycles
Max. switching frequency at rated load	0.1 Hz
Rated data	
Ambient temperature (operational)	-40 °C55 °C
Storage temperature	-40 °C85 °C
Humidity	3585 % rel. humidity, no condensation
Approvals	CE; cURus
Insulation coordination (EN 50178)	
Rated voltage	300 V
Impulse withstand voltage	5 kV (1.2/50 μs)
Dielectric strength input - output	5 kV _{eff} / 1min
Dielectric strength of neighbouring contacts	
Dielectric strength to mounting rail	
Creepage and clearance distance input - output	≥ 4 mm
Overvoltage category	III
Pollution degree	2
Dimensions	Plug-in connection
Depth x width x height	see dimensioned drawing
Note	

Applications

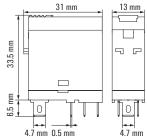


Dimensioned drawing without test button

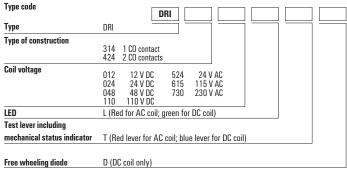




Dimensioned drawing with test button



DRI relay 1 CO contact, AC/DC coil



			Free wheeling dio	de D (DC coil only)	
Ordering data		12 V DC 1CO	24 V DC 1CO	48 V DC 1CO	110 V DC 1C0
Input					
Rated control voltage		12 V DC	24 V DC	48 V DC	110 V DC
Rated current AC / DC		/ 44,4 mA	/ 21,8 mA	/ 11,2 mA	/ 4,8 mA
Power rating		530 mW	530 mW	530 mW	530 mW
Pull-in/drop-out voltage, typ.		9 V / 1.8 V DC	18 V / 3.6 V DC	36 V / 7.2 V DC	82.5 V / 16.5 V DC
Pull-in/drop-out current, typ.					
Output					
Switch-on delay		≤ 15 ms	≤ 15 ms	≤ 15 ms	≤ 15 ms
Switch-off delay		≤ 10 ms	≤ 10 ms	≤ 10 ms	≤ 10 ms
Ordering data					
Standard	Туре	DRI314012	DRI314024	DRI314048	DRI314110
====	Order No.	7760056296	7760056297	7760056298	7760056299
with LED		DRI314012L	DRI314024L	DRI314048L	DRI314110L
WIUI LED	Type Order No.	7760056303			
	Order No.		7760056304	7760056305	7760056306
with LED + freewheel diode	,,	DRI314012LD	DRI314024LD	DRI314048LD	DRI314110LD
	Order No.	7760056310	7760056311	7760056312	7760056313
with test button + LED	Type	DRI314012LTD	DRI314024LTD	DRI314048LTD	DRI314110LTD
+ Free-wheel diode	Order No.	7760056314	7760056315	7760056316	7760056317
Ordering data		24 V AC 1CO	115 V AC 1CO	230 V AC 1 CO	
Input		211112	4451442		
Rated control voltage		24 V AC	115 V AC	230 V AC	_
Rated current AC / DC		50 mA /	9.3 mA /	4,9 mA /	
Power rating		1.2 VA	1.1 VA	1.1 VA	_
Pull-in/drop-out voltage, typ.		19.2 V / 7.2 V AC	92 V / 34.5 V AC	184 V / 69 V AC	
Pull-in/drop-out current, typ.					_ =
Output			1.7		
Switch-on delay		≤ 15 ms	≤ 15 ms	≤ 15 ms	_
Switch-off delay		≤ 10 ms	≤ 10 ms	≤ 10 ms	
Ordering data					
Standard	Туре	DRI314524	DRI314615	DRI314730	_
ouuru	Order No.	7760056300	7760056301	7760056302	
with LED	Туре	DRI314524L	DRI314615L	DRI314730L	
WIGH LED	Order No.				
ish as as bosses in 150		7760056307	7760056308	7760056309	
with test button + LED	Туре	DRI314524LT	DRI314615LT	DRI314730LT	_
	Order No.	7760056318	7760056319	7760056320	
	Type				_
	Order No.				
N					
Note					

DRI relay

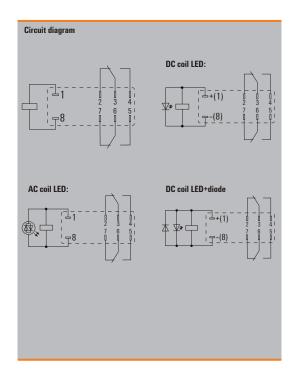
2 CO contacts, AC/DC coil

- Robust industrial plug-in connections
- Optional: latching / spring return operable test button with coloured control voltage identification (AC coil: red / DC coil: blue)
- Optional: Mechanical switch position indication (for version with test button)
- Optional: Bright status LED (AC coil: red / DC coil: green)
- Optional: free-wheeling diode







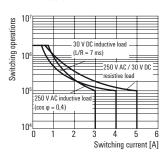


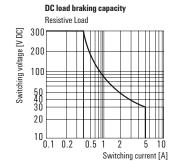
Technical data

Output	
Rated switching voltage / Continuous current	250 V AC / 5 A
Max. switching voltage, AC	250 V
Inrush current	
Min. switching power	10 mA @ 12 V, 100 mA @ 5 V
DC / AC Switching capacity (resistive), max.	150 W @ 24 V / 1250 VA
Contact material	AgNi
Mechanical service life	10 x 10 ⁶ switching cycles
Max. switching frequency at rated load	0.1 Hz
Rated data	
Ambient temperature (operational)	-40 °C55 °C
Storage temperature	-40 °C85 °C
Humidity	3585 % rel. humidity, no condensation
Approvals	CE; cURus
Insulation coordination (EN 50178)	
Rated voltage	300 V
Impulse withstand voltage	5 kV (1.2/50 μs)
Dielectric strength input - output	5 kV _{eff} / 1min
Dielectric strength of neighbouring contacts	1.5 kV _{eff} / 1 min.
Dielectric strength to mounting rail	***
Creepage and clearance distance input - output	≥ 4 mm
Overvoltage category	III
Pollution degree	2
Dimensions	Plug-in connection
Depth x width x height	see dimensioned drawing
Note	

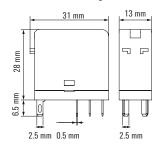
Applications

Electrical endurance

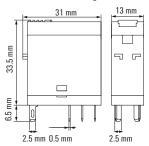




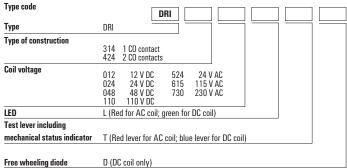
Dimensioned drawing without test button



Dimensioned drawing with test button



DRI relay 2 CO contacts, AC/DC coil

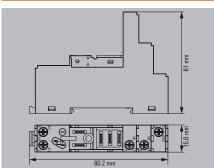


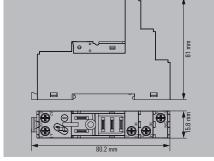
			Free wheeling did	ode D (DC coil only)	
ordering data		12 V DC 2C0	24 V DC 2C0	48 V DC 2CO	110 V DC 2C0
nput					
Rated control voltage		12 V DC	24 V DC	48 V DC	110 V DC
Rated current AC / DC		/ 44,4 mA	/ 21,8 mA	/ 11,2 mA	/ 4,8 mA
iateu cuitetit AC/ DC		/ 11,1 IIIA	/ 21,0 IIIA	/ 11,2 IIIA	/ 4,0 IIIA
Power rating		530 mW	530 mW	530 mW	530 mW
-	_	-			
Pull-in/drop-out voltage, ty	р.	9 V / 1.8 V DC	18 V / 3.6 V DC	36 V / 7.2 V DC	82.5 V / 16.5 V DC
D III: //					
Pull-in/drop-out current, typ	р.				_
Output					
Switch-on delay		≤ 15 ms	≤ 15 ms	≤ 15 ms	≤ 15 ms
Switch-off delay		≤ 10 ms	≤ 10 ms	≤ 10 ms	≤ 10 ms
Ordering data					
Standard	Type	DRI424012	DRI424024	DRI424048	DRI424110
	Order No.	7760056321	7760056322	7760056323	7760056324
with LED	Туре	DRI424012L	DRI424024L	DRI424048L	DRI424110L
	Order No.	7760056328	7760056329	7760056330	7760056331
with LED + freewheel diod		DRI424012LD	DRI424024LD	DRI424048LD	DRI424110LD
LLDoomilooi dibu	Order No.	7760056335	7760056336	7760056337	7760056338
with toot butt : LED					
with test button + LED	Type	DRI424012LTD	DRI424024LTD	DRI424048LTD	DRI424110LTD
+ Free-wheel diode	Order No.	7760056339	7760056340	7760056341	7760056342
		24 V AC 2CO	115 V AC 2CO	230 V AC 2CO	
Ordering data		24 V AG 2GU	115 V AC 2C0	230 V AG 200	
Rated control voltage		24 V AC	115 V AC	230 V AC	_
Rated current AC / DC		50 mA /	9.3 mA /	4,9 mA /	_
nateu current AG / DG		30 IIIA /	0.0 IIIA /	4,0 IIIA /	
Power rating		1.2 VA			_
-	n	19.2 V / 7.2 V AC	92 V / 34.5 V AC	184 V / 69 V AC	_
Pull-in/drop-out voltage, ty	μ.	13.2 V / 1.2 V AG	32 V / 34.3 V AC	104 V / US V AC	
Pull-in/drop-out current, typ	р.				_
Output					
Switch-on delay		≤ 15 ms	≤ 15 ms	≤ 15 ms	
Switch-off delay		≤ 10 ms	≤ 10 ms	≤ 10 ms	
Ordering data					
Standard	Туре	DRI424524	DRI424615	DRI424730	
Junuaru					
SULED	Order No.	7760056325	7760056326	7760056327	
vith LED	Type	DRI424524L	DRI424615L	DRI424730L	_
	Order No.	7760056332	7760056333	7760056334	
with test button + LED	Type	DRI424524LT	DRI424615LT	DRI424730LT	
	Order No.	7760056343	7760056344	7760056345	
		30000 10	770000071	770000010	_
	Type Order No.				
	Order No.				
Note					

Accessories for DRI relays

- Base, logical construction, input and output isolated
- Terminal-rail unlocking using screwdriver
- Wide assortment of functional modules

Base with clamping yoke connection, 1 CO contact





250 V AC

-40 °C...70 °C

-40 °C...85 °C

4 kV_{eff} / 1 min.

4.8 kV (1.2/50 μs)

1.5 / 0.25 / 4 mm²

0.5...0.8 Nm

8 mm

CE; cURus

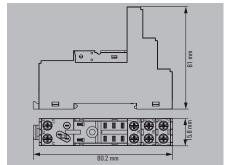
IP20

≥ 3 mm

250 V

12 A

Base with clamping yoke connection, 2 CO contacts





250 V AC	
250 V	
8 A	
-40 °C70 °C	
-40 °C85 °C	
CE; cURus	
IP20	
≥ 3 mm	
4 kV _{eff} / 1 min.	
2.5 KV _{eff} / 1 min.	
4.8 kV (1.2/50 μs)	
1.5 / 0.25 / 4 mm ²	
0.50.8 Nm	
8 mm	

Technical data

Output

Rated switching voltage Max. switching voltage, AC

Continuous current

Rated data

Ambient temperature (operational)

Storage temperature

 ${\sf Approvals}$

Insulation coordination

Protection degree

Creepage and clearance distance input - output

Dielectric strength input - output

Dielectric strength of neighbouring contacts

Impulse withstand voltage

Connection data

Clamping range (nominal / min. / max.)

Tightening torque

Stripping length, rated connection

Note

Ordering data

	Base on TS35 DIN rail
Note	

Туре	Qty.	Order No.
SDI 1CO	10	7760056350

Туре	Qty.	Order No.
SDI 2CO	10	7760056351

Accessories

LED / functional modules
Free-wheeling diode
LED 6 - 24 V DC green and freewheeling diode
LED 24 - 60 V DC green and free-wheeling diode
LED 110 - 230 V DC green and free-wheeling diode
LED 6 - 24 V UC green
LED 24 - 60 V UC green
LED 110 - 230 V UC green
RC element 110 - 230 V AC; 4.7 k Ω / 10 nF
RC element 110 - 230 V AC; 100 Ω / 220 nF and LED green

Plastic retaining clip

Screwdriver, insulated PH1 SlimLine Screwdriver, insulated PH1

Туре	Qty.	Order No.
RIM 1 6/230VDC	10	7760056169
RIM 2 6/24VDC	10	7760056015
RIM 2 24/60VDC	10	7760056016
RIM 2 110/230VDC	10	7760056017
RIM 3 6/24VUC	20	7940018457
RIM 3 24/60VUC	10	7760056018
RIM 3 110/230VUC	20	7940018455
RIM 3 110/230VAC	10	7760056014
RIM 3 110/230VAC LED	10	7760056045
SDI CLIP	10	7760056352
SDI SL/PH 1	1	1318330000
SDIK PH1	1	9008570000

Туре	Qty.	Order No.
RIM 1 6/230VDC	10	7760056169
RIM 2 6/24VDC	10	7760056015
RIM 2 24/60VDC	10	7760056016
RIM 2 110/230VDC	10	7760056017
RIM 3 6/24VUC	20	7940018457
RIM 3 24/60VUC	10	7760056018
RIM 3 110/230VUC	20	7940018455
RIM 3 110/230VAC	10	7760056014
RIM 3 110/230VAC LED	10	7760056045
SDI CLIP	10	7760056352
SDI SL/PH 1	1	1318330000
SDIK PH1	1	9008570000

Note

Accessories for DRI relays

- Flat design
- Pre-assembled plastic retaining clip
- Terminal-rail unlocking using screwdriver
- Touch-safe leaf spring connection

Base with pressure clamping plate, 1 CO contact

250 V AC

-40 °C...70 °C -40 °C...85 °C

250 V

12 A

CE

IP20

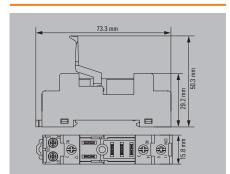
8 mm

≥ 3 mm

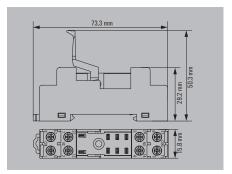
4 kV_{eff} / 1 min.

4.8 kV (1.2/50 μs)

1.5 / 0.5 / 2.5 mm² 0.5...0.8 Nm



Base with pressure clamping plate, 2 CO contacts









250 V AC
250 V
8 A
-40 °C70 °C
-40 °C85 °C
CE
IP20
≥ 3 mm
4 kV _{eff} / 1 min.
2.5 KV _{eff} / 1 min.
4.8 kV (1.2/50 μs)
1.5 / 0.5 / 2.5 mm ²
0.50.8 Nm
8 mm

Technical data

Output

Rated switching voltage Max. switching voltage, AC

Continuous current

Rated data

Ambient temperature (operational)

Storage temperature

 ${\sf Approvals}$

Insulation coordination

Protection degree

Creepage and clearance distance input - output

Dielectric strength input - output

Dielectric strength of neighbouring contacts

Impulse withstand voltage

Connection data

Clamping range (nominal / min. / max.)

Tightening torque

Stripping length, rated connection

Note



Туре SDI 2CO F ECO 10 **7760056349**

Ordering data

	Base on TS35 DIN rail
Note	

Туре	Qty.	Order No.
SDI 1CO F ECO	10	7760056348

Accessories	
Miscellaneous accessories	
	Screwdriver, insulated PH1 SlimLine
	Screwdriver, insulated PH1

Fork-type cable lug 0.5mm² - 1mm² Fork-type cable lug 1.5mm² - 2.5mm² Fork-type cable lug 0.5mm² - 1mm² Fork-type cable lug $1.5 mm^2 - 2.5 mm^2$

Type	uty.	Urder No.
SDI SL/PH 1	1	1318330000
SDIK PH1	1	9008570000
KQIG-M3/-1	100	1492520000
KQIG-M3/-2,5	100	1492600000
KQIG-M3,5/-1	100	1492530000
KQIG-M3,5/-2,5	100	1492610000

Qty.	Order No.
1	1318330000
1	9008570000
100	1492520000
100	1492600000
	1 1 100

Order No.

Note

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