

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.



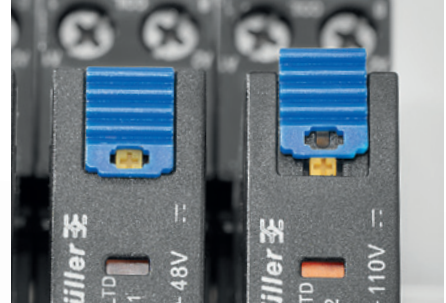
Secure status identification

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.



D-SERIES

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.



Simple error reduction

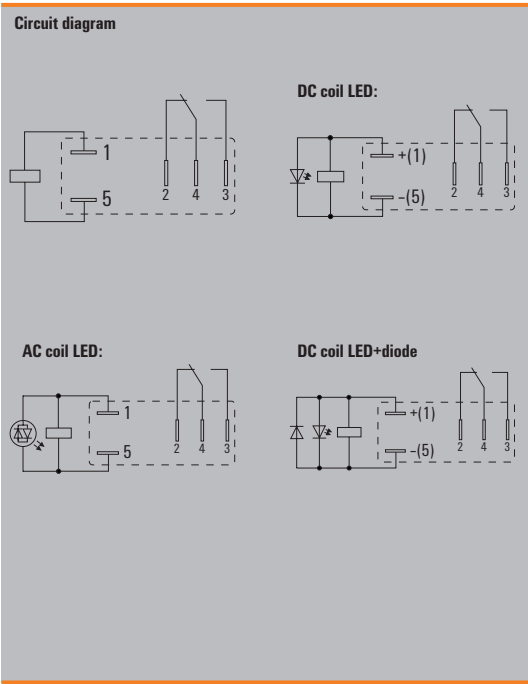
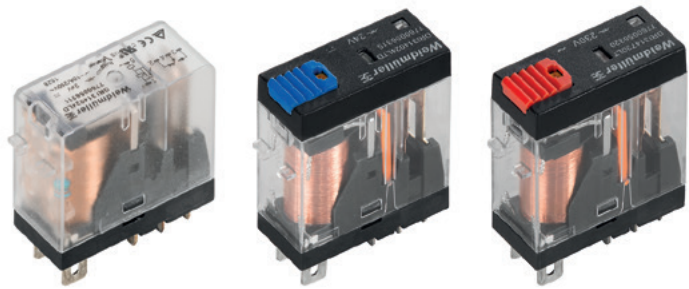
Clearly legible product recognition and colour coding of the test button reduce errors in installation and service.



DRI relay

1 CO contact, AC/DC coil

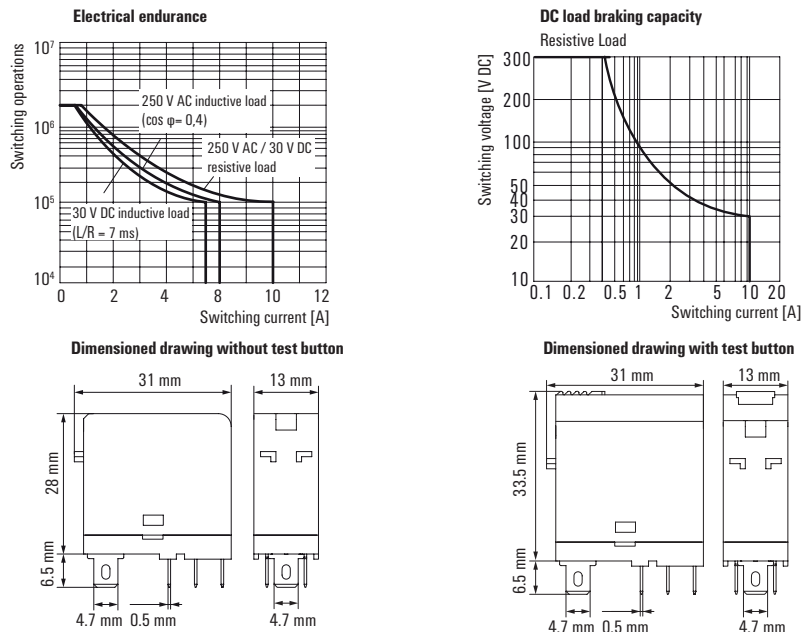
- Robust industrial plug-in connections
- Optional: latching / spring return operable test button with coloured control voltage identification (AC coil: red / DC coil: blue)
- Optional: Mechanical switch position indication (for version with test button)
- Optional: Bright status LED (AC coil: red / 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 °C...55 °C
Storage temperature	-40 °C...85 °C
Humidity	35...85 % 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	
Depth x width x height	see dimensioned drawing
Plug-in connection	
see dimensioned drawing	
Note	

Applications



DRI relay
1 CO contact, AC/DC coil

Type code						
Type	DRI					
Type of construction	314 1 CO contact 424 2 CO contacts					
Coil voltage	012 12 V DC 024 24 V DC 048 48 V DC 110 110 V DC	524 24 V AC 615 115 V AC 730 230 V AC				
LED	L (Red for AC coil; green for DC coil)					
Test lever including mechanical status indicator	T (Red lever for AC coil; blue lever for DC coil)					
Free wheeling diode	D (DC coil only)					

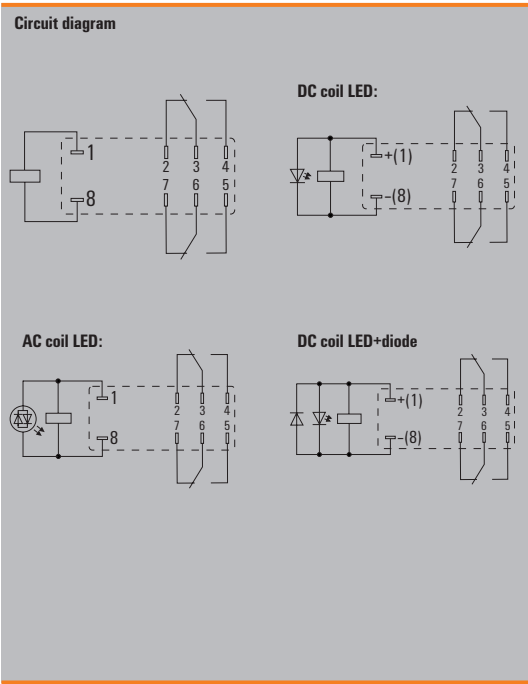
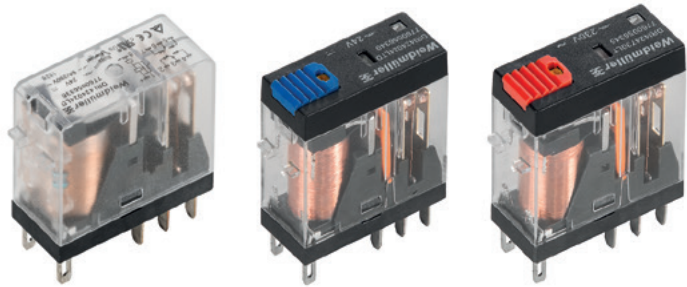
Ordering data		12 V DC 1CO	24 V DC 1CO	48 V DC 1CO	110 V DC 1CO
Input					
Rated control voltage		12 V DC	24 V DC	48 V DC	110 V DC
Rated current AC / DC		/ 44,4 mA	/ 21,8 mA	/ 11,2 mA	/ 4,8 mA
Power rating		530 mW	530 mW	530 mW	530 mW
Pull-in/drop-out voltage, typ.		9 V / 1.8 V DC	18 V / 3.6 V DC	36 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	Type	DRI314012	DRI314024	DRI314048	DRI314110
	Order No.	7760056296	7760056297	7760056298	7760056299
with LED	Type	DRI314012L	DRI314024L	DRI314048L	DRI314110L
	Order No.	7760056303	7760056304	7760056305	7760056306
with LED + freewheel diode	Type	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
Note					

Ordering data		24 V AC 1CO	115 V AC 1CO	230 V AC 1 CO
Input				
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				
Switch-on delay		≤ 15 ms	≤ 15 ms	≤ 15 ms
Switch-off delay		≤ 10 ms	≤ 10 ms	≤ 10 ms
Ordering data				
Standard	Type	DRI314524	DRI314615	DRI314730
	Order No.	7760056300	7760056301	7760056302
with LED	Type	DRI314524L	DRI314615L	DRI314730L
	Order No.	7760056307	7760056308	7760056309
with test button + LED	Type	DRI314524LT	DRI314615LT	DRI314730LT
	Order No.	7760056318	7760056319	7760056320
	Type			
	Order No.			
Note				

DRI relay

2 CO contacts, AC/DC coil

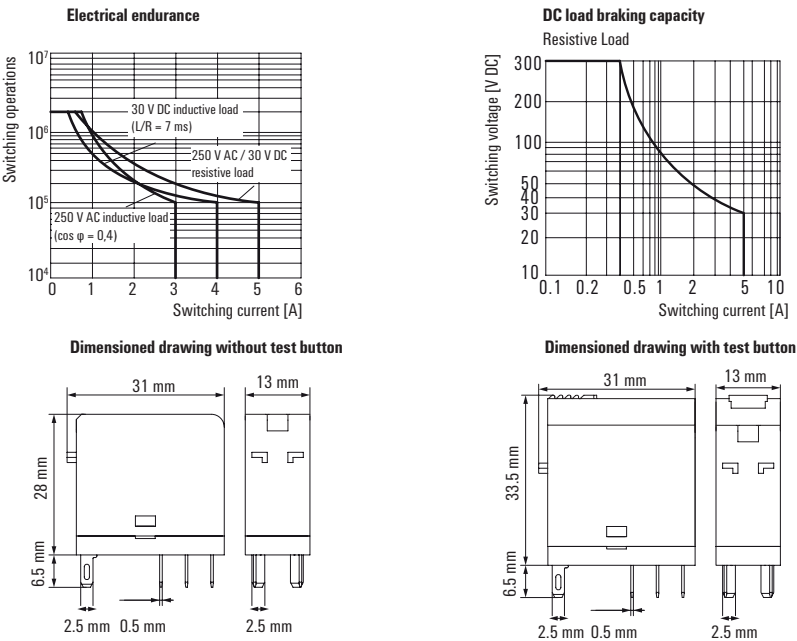
- Robust industrial plug-in connections
- Optional: latching / spring return operable test button with coloured control voltage identification (AC coil: red / DC coil: blue)
- Optional: Mechanical switch position indication (for version with test button)
- Optional: Bright status LED (AC coil: red / 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 °C...55 °C
Storage temperature	-40 °C...85 °C
Humidity	35...85 % 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} / 1 min
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	
Depth x width x height	see dimensioned drawing
Note	

Applications



DRI relay
2 CO contacts, AC/DC coil

Type code						
Type	DRI					
Type of construction	314 424	1 CO contact 2 CO contacts				
Coil voltage	012 024 048 110	12 V DC 24 V DC 48 V DC 110 V DC	524 615 730	24 V AC 115 V AC 230 V AC		
LED	L (Red for AC coil; green for DC coil)					
Test lever including mechanical status indicator	T (Red lever for AC coil; blue lever for DC coil)					
Free wheeling diode	D (DC coil only)					

Ordering data		12 V DC 2CO	24 V DC 2CO	48 V DC 2CO	110 V DC 2CO
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	Type	DRI424012	DRI424024	DRI424048	DRI424110
	Order No.	7760056321	7760056322	7760056323	7760056324
with LED	Type	DRI424012L	DRI424024L	DRI424048L	DRI424110L
	Order No.	7760056328	7760056329	7760056330	7760056331
with LED + freewheel diode	Type	DRI424012LD	DRI424024LD	DRI424048LD	DRI424110LD
	Order No.	7760056335	7760056336	7760056337	7760056338
with test button + LED	Type	DRI424012LTD	DRI424024LTD	DRI424048LTD	DRI424110LTD
+ Free-wheel diode	Order No.	7760056339	7760056340	7760056341	7760056342
Note					

Ordering data		24 V AC 2CO	115 V AC 2CO	230 V AC 2CO
Input				
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				
Switch-on delay		≤ 15 ms	≤ 15 ms	≤ 15 ms
Switch-off delay		≤ 10 ms	≤ 10 ms	≤ 10 ms
Ordering data				
Standard	Type	DRI424524	DRI424615	DRI424730
	Order No.	7760056325	7760056326	7760056327
with LED	Type	DRI424524L	DRI424615L	DRI424730L
	Order No.	7760056332	7760056333	7760056334
with test button + LED	Type	DRI424524LT	DRI424615LT	DRI424730LT
	Order No.	7760056343	7760056344	7760056345
	Type			
	Order No.			
Note				

Accessories for DRI relays

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

Technical data

Output

Rated switching voltage
Max. switching voltage, AC
Continuous current

Rated data

Ambient temperature (operational)
Storage temperature
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

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 kΩ / 10 nF
RC element 110 - 230 V AC; 100 Ω / 220 nF and LED green

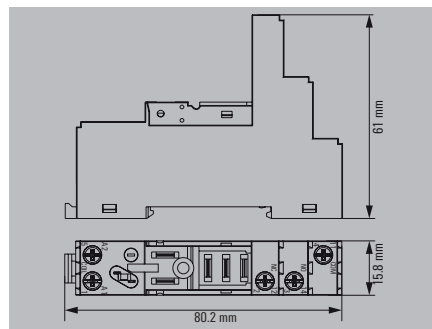
Retaining clip

Plastic retaining clip

Miscellaneous accessories

Screwdriver, insulated PH1 SlimLine
Screwdriver, insulated PH1

Base with clamping yoke connection, 1 CO contact



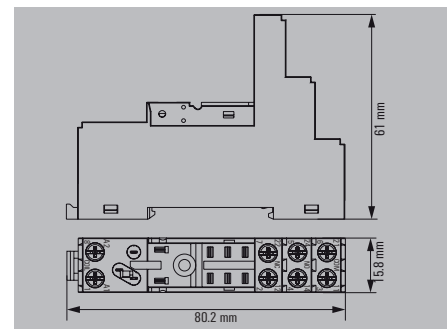
250 V AC
250 V
12 A

-40 °C...70 °C
-40 °C...85 °C
CE; cURus

IP20
≥ 3 mm
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

Base with clamping yoke connection, 2 CO contacts



250 V AC
250 V
8 A

-40 °C...70 °C
-40 °C...85 °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 mm²
0.5...0.8 Nm
8 mm

Type	Qty.	Order No.
SDI 1CO	10	7760056350

Type	Qty.	Order No.
SDI 2CO	10	7760056351

Type	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

Type	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

Technical data

Output
Rated switching voltage
Max. switching voltage, AC
Continuous current
Rated data
Ambient temperature (operational)
Storage temperature
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

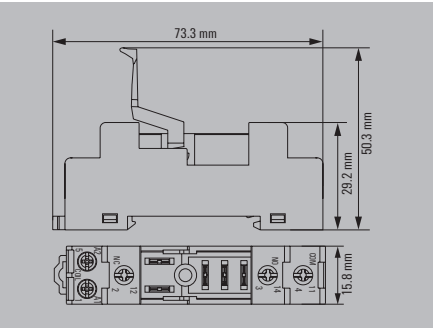
Base on TS35 DIN rail
Note

Accessories

Miscellaneous accessories
Screwdriver, insulated PH1 SlimLine
Screwdriver, insulated PH1
Insulated cable connector
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 1.5mm² - 2.5mm²

Note

Base with pressure clamping plate, 1 CO contact



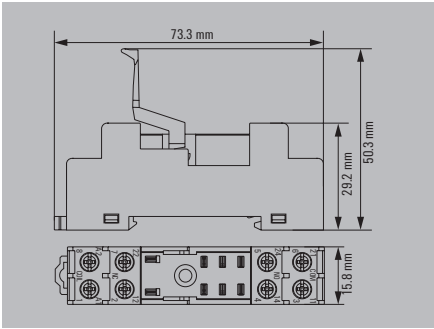
250 V AC
250 V
12 A
-40 °C...70 °C
-40 °C...85 °C
CE
IP20
≥ 3 mm
4 kV _{eff} / 1 min.
4.8 kV (1.2/50 µs)
1.5 / 0.5 / 2.5 mm²
0.5...0.8 Nm
8 mm

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

Type	Qty.	Order 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

Note

Base with pressure clamping plate, 2 CO contacts



250 V AC
250 V
8 A
-40 °C...70 °C
-40 °C...85 °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 mm²
0.5...0.8 Nm
8 mm

Type	Qty.	Order No.
SDI 2CO F ECO	10	7760056349

Type	Qty.	Order No.
SDI SL/PH 1	1	1318330000
SDIK PH1	1	9008570000
KQIG-M3/-1	100	1492520000
KQIG-M3/-2,5	100	1492600000

Note

DRI KIT

1 CO contact, AC/DC coil

- Assembled kit consisting of relay, base and retaining clip, incl. label
- 100% function-tested
- 100% control of the dielectric strength input - output
- Optional: test button with coloured control voltage marking (AC coil: red / DC coil: blue) and mechanical switch position indicator
- Bright status LED (AC coil: red / DC coil: green)



Ordering data

Input	12 V DC 1CO	24 V DC 1CO	48 V DC 1CO	110 V DC 1CO
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
Status indicator	Green LED	Green LED	Green LED	Green LED
Protective circuit	Free-wheel diode	Free-wheel diode	Free-wheel diode	Free-wheel diode
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

with test button	Type	DRIKIT 12VDC 1CO LD/PB	DRIKIT 24VDC 1CO LD/PB	DRIKIT 48VDC 1CO LD/PB	DRIKIT 110VDC 1CO LD/PB
	Order No.	2476740000	2476750000	2476760000	2476770000
without test button	Type	DRIKIT 12VDC 1CO LD	DRIKIT 24VDC 1CO LD	DRIKIT 48VDC 1CO LD	DRIKIT 110VDC 1CO LD
	Order No.	2476340000	2476680000	2476690000	2476700000
	Type				
	Order No.				
	Type				
	Order No.				

Note

Ordering data

Input	24 V AC 1CO	115 V AC 1CO	230 V AC 1CO
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
Status indicator	red LED	red LED	red LED
Protective circuit			
Output			
Switch-on delay	≤ 15 ms	≤ 15 ms	≤ 15 ms
Switch-off delay	≤ 10 ms	≤ 10 ms	≤ 10 ms

Ordering data

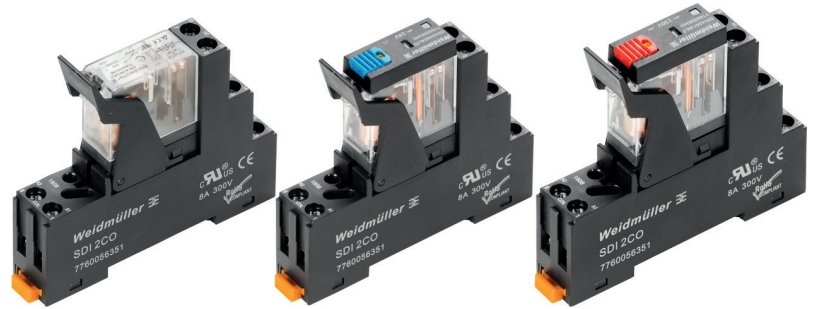
with test button	Type	DRIKIT 24VAC 1CO LD/PB	DRIKIT 115VAC 1CO LD/PB	DRIKIT 230VAC 1CO LD/PB
	Order No.	2476780000	2476790000	2476800000
without test button	Type	DRIKIT 24VAC 1CO LD	DRIKIT 115VAC 1CO LD	DRIKIT 230VAC 1CO LD
	Order No.	2476710000	2476720000	2476730000
	Type			
	Order No.			
	Type			
	Order No.			

Note

DRI KIT

2 CO contact, AC/DC coil

- Assembled kit consisting of relay, base and retaining clip, incl. label
- 100% function-tested
- 100% control of the dielectric strength input - output
- Optional: test button with coloured control voltage marking (AC coil: red / DC coil: blue) and mechanical switch position indicator
- Bright status LED (AC coil: red / DC coil: green)



Ordering data

	12 V DC 2CO	24 V DC 2CO	48 V DC 2CO	110 V DC 2CO
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
Status indicator	Green LED	Green LED	Green LED	Green LED
Protective circuit	Free-wheel diode	Free-wheel diode	Free-wheel diode	Free-wheel diode
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				
with test button	Type	DRIKIT 12VDC 2CO LD/PB	DRIKIT 24VDC 2CO LD/PB	DRIKIT 48VDC 2CO LD/PB
	Order No.	2476880000	2476890000	2476900000
without test button	Type	DRIKIT 12VDC 2CO LD	DRIKIT 24VDC 2CO LD	DRIKIT 48VDC 2CO LD
	Order No.	2476810000	2476820000	2476830000
	Type			
	Order No.			
	Type			
	Order No.			

Note				

Ordering data

	24 V AC 2CO	115 V AC 2CO	230 V AC 2CO
Input			
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
Status indicator	red LED	red LED	red LED
Protective circuit			
Output			
Switch-on delay	≤ 15 ms	≤ 15 ms	≤ 15 ms
Switch-off delay	≤ 10 ms	≤ 10 ms	≤ 10 ms

Ordering data			
with test button	Type	DRIKIT 24VAC 2CO LD/PB	DRIKIT 115VAC 2CO LD/PB
	Order No.	2476920000	2476930000
without test button	Type	DRIKIT 24VAC 2CO LD	DRIKIT 115VAC 2CO LD
	Order No.	2476850000	2476860000
	Type		
	Order No.		
	Type		
	Order No.		

Note			

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Weidmüller - Partner in Industrial Connectivity

As experienced experts we support our customers and partners around the world with products, solutions and services in the industrial environment of power, signal and data. We are at home in their industries and markets and know the technological challenges of tomorrow. We are therefore continuously developing innovative, sustainable and useful solutions for their individual needs. Together we set standards in Industrial Connectivity.

Let's Connect.

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