D-SERIES DRI
DRI314012

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
www.weidmueller.com

Product image

Similar to illustration

Relay from the D-SERIES DRI

- 1 or 2 CO contacts
- 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

General ordering data

Type	DRI314012
Order No.	7760056296
Version	D-SERIES DRI, Relay, Number of contacts: 1 CO contact AgSnO, Rated control voltage: 12 V DC, Continuous current: 10 A, Flat blade connections (4.7 mm x 0.5 mm)
GTIN (EAN)	6944169739774
Qty.	20 pc(s).

Creation date May 1, 2020 2:26:32 PM CEST

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Technical data

Dimensions and weights

Width	13 mm	Width (inches)	0.512 inch
Height	31 mm	Height (inches)	1.22 inch
Depth	28 mm	Depth (inches)	1.102 inch
Net weight	19 g		

Temperatures

Humidity	35...85 % rel. humidity, no condensation	Operating temperature, max.	55 °C
Operating temperature, min.	-40 °C	Storage temperature, max.	85 °C
Storage temperature, min.	-40 °C	Operating temperature	-40 °C...55 °C
Storage temperature	-40 °C...85 °C		

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1

Rated data UL

Certificate No. (cURus)	E312083

Input

Rated control voltage	12 V DC	Rated current DC	44,4 mA
Power rating	530 mW	Pull-in/drop-out voltage, typ.	9 V / 1.8 V DC
Coil resistance	270 Ω ± 10 %		

Output

Rated switching voltage	250 V AC	Max. switching voltage, AC	250 V
Max. switching voltage, DC	250 V	Continuous current	10 A
AC switching capacity (resistive), max.	2500 VA	DC switching capacity (resistive), max.	240 W @ 24 V
Switch-on delay	≤ 15 ms	Switch-off delay	≤ 10 ms
Min. switching power	10 mA @ 12 V, 100 mA @ 5 V	Max. switching frequency at rated load	0.1 Hz

Contact data

Contact type	1 CO contact (AgSnO)	Mechanical service life	10 x 10^6 switching cycles

General data

Test button	No	Mechanical switch position indicator	No
Colour	Transparent	UL 94 flammability rating	V-2

Insulation coordination

Rated voltage	300 V	Surge voltage category	III
Pollution severity	2	Insulating material group	IIIa
Protection degree	IP20	Dielectric strength, Input/Output	5 kV_{eff} / 1min
Creepage and clearance distance input – output	≥ 4 mm	Dielectric strength of open contact	1 kV_{eff} / 1 min
Impulse withstand voltage	5 kV (1.2/50 µs)		

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Technical data

Further details of approvals / standards

Standards	IEC 61810-1, EN 60664-1:2007, EN 61000-6-2:2005, EN 61000-6-4:2007 + A1:2011, UL 508	Certificate No. (cURus)	E312083

Connection data

Wire connection method	Flat blade connections (4.7 mm x 0.5 mm)

Classifications

ETIM 6.0	EC001437	ETIM 7.0	EC001437
eClass 9.0	27-37-16-01	eClass 9.1	27-37-16-01
eClass 10.0	27-37-16-01		

Approvals

Approvals	
ROHS	Conform

Downloads

Approval/Certificate/Document of Conformity	EU Konformitätserklärung / EU Declaration of Conformity
Engineering Data	EPLAN, WSCAD
Engineering Data	STEP

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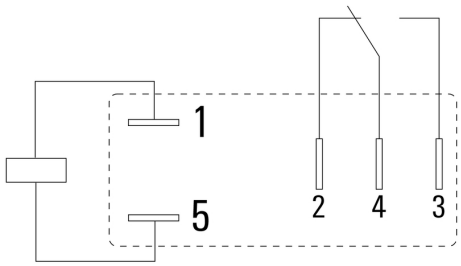
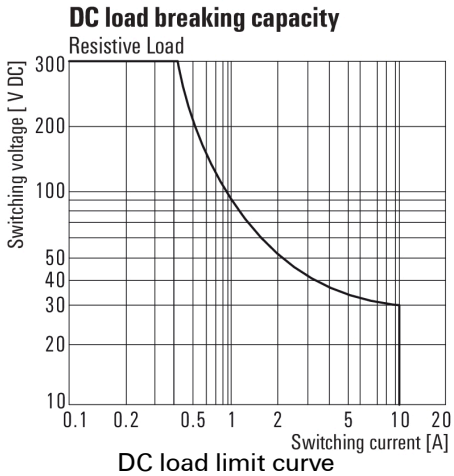
Drawings

Wiring diagram



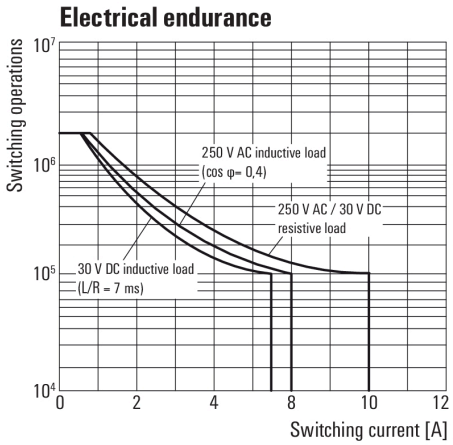
View of Pins from below

Graph



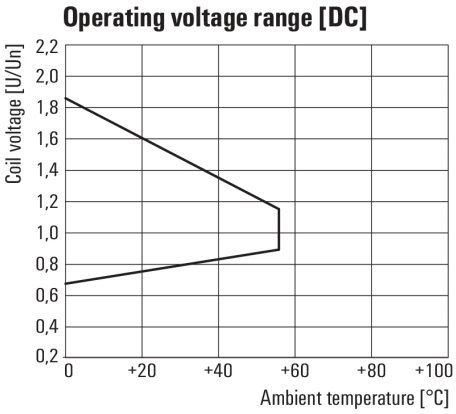
DC load limit curve
Resistive load

Graph



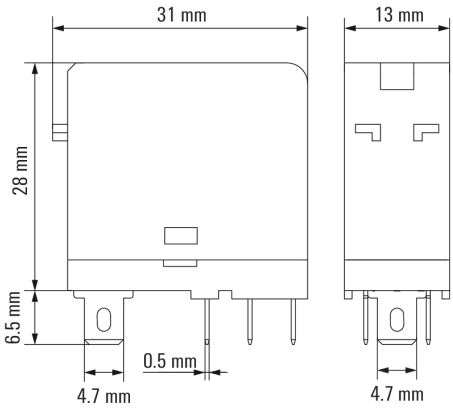
Electrical service life

Graph



DC operational voltage range

Dimensional drawing



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Mating connector (fully pluggable)

Base

Accessories for D-SERIES relays include:
- Relay bases
- LED / Protective modules
- Metal retaining clips

General ordering data

Type	SDI 1CO P	Version
Order No.	7760056364	D-SERIES DRI, Relay bases, Number of contacts: 1 CO contact,
GTIN (EAN)	6944169772283	Continuous current: 12 A, PUSH IN
Qty.	20 pc(s).	
Type	SDI 1CO ECO	Version
Order No.	7760056346	D-SERIES DRI, Relay bases, Number of contacts: 1 CO contact,
GTIN (EAN)	6944169739934	Continuous current: 12 A, Screw connection
Qty.	10 pc(s).	
Type	SDI 1CO	Version
Order No.	7760056350	D-SERIES DRI, Relay bases, Number of contacts: 1 CO contact,
GTIN (EAN)	6944169739972	Continuous current: 12 A, Screw connection
Qty.	10 pc(s).	
Type	SDI 1CO F ECO	Version
Order No.	7760056348	D-SERIES DRI, Relay bases, Number of contacts: 1 CO contact,
GTIN (EAN)	6944169739958	Continuous current: 12 A, Screw connection
Qty.	10 pc(s).	

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Accessories

Retaining clip

Accessories for D-SERIES relays include:
- Relay bases
- LED / Protective modules
- Metal retaining clips

General ordering data

Type	SDI CLIP P	Version
Order No.	7760056389	D-SERIES DRI, Retaining clip
GTIN (EAN)	6944169787539	
Qty.	10 pc(s).	
Type	SDI CLIP LM	Version
Order No.	7760056368	D-SERIES DRI, Retaining clip
GTIN (EAN)	6944169773341	
Qty.	10 pc(s).	
Type	SDI CLIP	Version
Order No.	7760056352	D-SERIES DRI, Retaining clip
GTIN (EAN)	6944169739996	
Qty.	10 pc(s).	

Base

Accessories for D-SERIES relays include:
- Relay bases
- LED / Protective modules
- Metal retaining clips

General ordering data

Type	SDI 1CO P	Version
Order No.	7760056364	D-SERIES DRI, Relay bases, Number of contacts: 1 CO contact,
GTIN (EAN)	6944169772283	Continuous current: 12 A, PUSH IN
Qty.	20 pc(s).	
Type	SDI 1CO ECO	Version
Order No.	7760056346	D-SERIES DRI, Relay bases, Number of contacts: 1 CO contact,
GTIN (EAN)	6944169739934	Continuous current: 12 A, Screw connection
Qty.	10 pc(s).	
Type	SDI 1CO	Version
Order No.	7760056350	D-SERIES DRI, Relay bases, Number of contacts: 1 CO contact,
GTIN (EAN)	6944169739972	Continuous current: 12 A, Screw connection
Qty.	10 pc(s).	

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Accessories

Type	SDI 1CO F ECO	Version
Order No.	7760056348	D-SERIES DRI, Relay bases, Number of contacts: 1 CO contact,
GTIN (EAN)	6944169739958	Continuous current: 12 A, Screw connection
Qty.	10 pc(s).	

Protection modules

Accessories for D-SERIES relays include:
- Relay bases
- LED / Protective modules
- Metal retaining clips

General ordering data

Type	RIM 1 6/230VDC	Version
Order No.	7760056169	D-SERIES, Free-wheeling diode, Rated control voltage: 6...230 V, Plug-
GTIN (EAN)	4032248967728	in connection
Qty.	10 pc(s).	

LED / free-wheel diode

Accessories for D-SERIES relays include:
- Relay bases
- LED / Protective modules
- Metal retaining clips

General ordering data

Type	RIM 2 6/24VDC	Version
Order No.	7760056015	D-SERIES, LED module with freewheel diode, Rated control voltage:
GTIN (EAN)	4032248878116	6...24 V DC, Plug-in connection
Qty.	10 pc(s).	

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Accessories

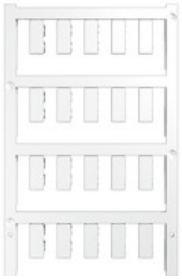
LED

Accessories for D-SERIES relays include:
- Relay bases
- LED / Protective modules
- Metal retaining clips

General ordering data

Type	RIM 3 6/24VUC	Version
Order No.	7940018457	D-SERIES, LED module, Rated control voltage: 6...24 V UC, Plug-in
GTIN (EAN)	4032248878192	connection
Qty.	20 pc(s).	

MultiCard



The Weidmüller device markers enable users to conform to obligatory equipment labelling regulations.
Users can label the device markers themselves by means of suitable software and system-compatible printer systems.
ESG is the tried-and-tested marker in MultiCard format. The result is high-quality device marking with a high-contrast appearance.

ESG 6/15 SDI MC... for marking D-SERIES DRI relay sockets:

- Attachable MultiCard markers
- Depending on the relay socket it is attachable on up to 4 levels
- Additional option for attaching the marker on plastic retaining clip: SDI CLIP P
- PrintJet printable

General ordering data

Type	ESG 6/15 SDI MC SDR	Version
Order No.	2558310000	ESG, Device markers x 15 mm, PA 66, Colour: To customer
GTIN (EAN)	4050118569025	specification
Qty.	40 pc(s).	
Type	ESG 6/15 SDI MC NE WS	Version
Order No.	2558340000	ESG, Device markers x 15 mm, PA 66, Colour: white
GTIN (EAN)	4050118569056	
Qty.	200 pc(s).	

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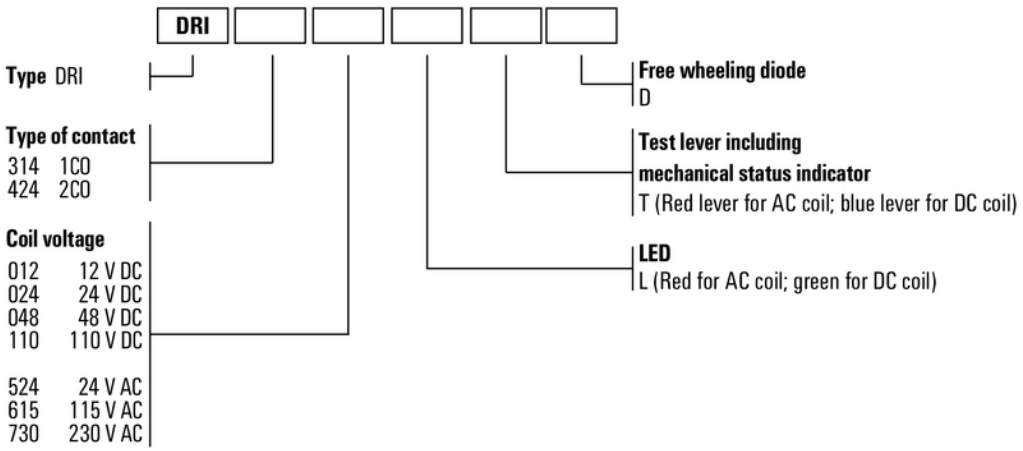
Drawings

Miscellaneous



Type codes