

D-SERIES DRI
DRI314012LTD

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 16
 D-32758 Detmold
 Germany
 Fon: +49 5231 14-0
 Fax: +49 5231 14-292083
 www.weidmueller.com



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	DRI314012LTD
Order No.	7760056314
Version	D-SERIES DRI, Relay, No. of contacts: 1 CO contact with test button AgNi, Rated control voltage: 12 V DC, Continuous current: 10 A, Flat blade connections (4.7 mm x 0.5 mm)
GTIN (EAN)	6944169740190
Qty.	20 pc(s).

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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	33.5 mm	Depth (inches)	1.319 inch
Net weight	28.83 g		

Temperatures

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

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 %	Status indicator	Green LED
Protective circuit	Free-wheel diode		

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 with test button (AgNi)	Mechanical service life	10 x 10 ⁶ switching cycles
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General data

Test button	yes (lockable)	Mechanical switch position indicator	Yes
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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} / 1 min
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)		

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
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Data sheet

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Technical data

Connection data

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

Classifications

ETIM 5.0	EC001437	ETIM 6.0	EC001437
eClass 6.2	27-37-16-01	eClass 7.1	27-37-16-01
eClass 8.1	27-37-16-01	eClass 9.0	27-37-16-01
eClass 9.1	27-37-16-01		

Approvals

Approvals



ROHS Conform

Downloads

Approval/Certificate/Document of Conformity	DE_PA_5600_160310_002.pdf
Engineering Data	EPLAN_WSCAD

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Drawings

Wiring diagram



View of Pins from below

Graph



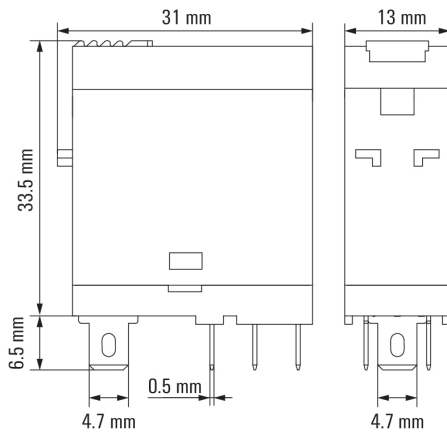
Graph



Graph



Dimensional drawing



Data sheet

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Drawings

Miscellaneous

Type code		DRI					
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						

Type codes