

**D-SERIES DRL
DRL170024L**

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
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Germany
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Product image

Relay from the D-SERIES DRL.

- 1, 2, 3 or 4 CO contacts
- Compact design
- Wide range of coil voltages
- With integrated status display (AC red, DC green)

General ordering data

Type	DRL170024L
Order No.	1133460000
Version	D-SERIES DRL, Relay, No. of contacts: 1 CO contact AgCdO, Rated control voltage: 24 V DC, Continuous current: 16 A, Flat blade connections (4.8 mm x 0.5 mm)
GTIN (EAN)	4032248952915
Qty.	20 pc(s).

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Technical data
Dimensions and weights

Width	21.5 mm	Width (inches)	0.846 inch
Height	28 mm	Height (inches)	1.102 inch
Depth	36 mm	Depth (inches)	1.417 inch
Net weight	35 g		

Temperatures

Humidity	35 % to 85 % relative humidity level	Operating temperature, max.	55 °C
Operating temperature, min.	-25 °C	Storage temperature, max.	55 °C
Storage temperature, min.	-25 °C	Operating temperature	-25 °C...55 °C
Storage temperature	-25 °C...55 °C		

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
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Rated data UL

Certificate No. (cURus)	E312083
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Input

Rated control voltage	24 V DC	Rated current DC	36.9 mA
Power rating	0.9 W	Pull-in/drop-out voltage, typ.	18 V / 2.4 V DC
Coil resistance	650 $\Omega \pm 10\%$	Status indicator	Green LED

Output

Rated switching voltage	250 V AC	Max. switching voltage, AC	250 V
Continuous current	16 A	Inrush current	80 A / 50 ms
AC switching capacity (resistive), max.	4000 VA	DC switching capacity (resistive), max.	384 W @ 24 V
Switch-on delay	< 20 ms	Switch-off delay	< 20 ms
Min. switching power	100 mA @ 12 V	Max. switching frequency at rated load	0.1 Hz

Contact data

Contact type	1 CO contact (AgCdO)	Contact resistance	$\leq 50\text{ m}\Omega$
Mechanical service life	10 x 10 ⁶ switching cycles		

General data

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

Insulation coordination

Rated voltage	250 V	Surge voltage category	III
Pollution severity	3	Insulating material group	IIIa
Protection degree	IP20	Dielectric strength, Input/Output	2 kV _{eff} / 1 min
Creepage and clearance distance input – output	$\geq 4\text{ mm}$	Dielectric strength of open contact	1.2 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 (4.8 mm x 0.5 mm)
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Classifications

ETIM 3.0	EC001437	ETIM 5.0	EC001437
ETIM 6.0	EC001437	eClass 6.2	27-37-10-16
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
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Downloads

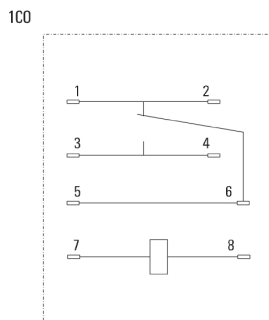
Approval/Certificate/Document of Conformity	DE_PA_5600_160310_003.pdf
Brochure/Catalogue	CAT 4.2 ELECTR 18/19 EN
Engineering Data	EPLAN, WSCAD
Engineering Data	STEP

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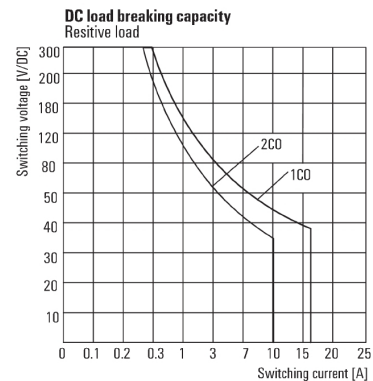
Drawings

Wiring diagram



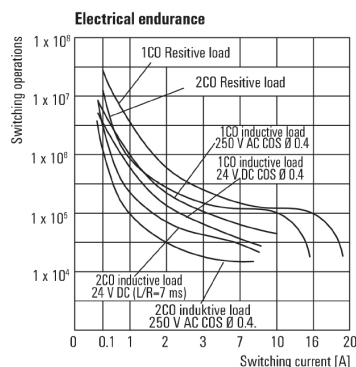
View of Pins from below

Graph



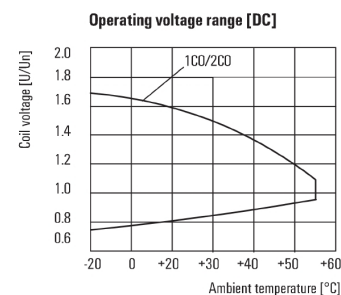
DC load limit curve
Resistive load

Graph



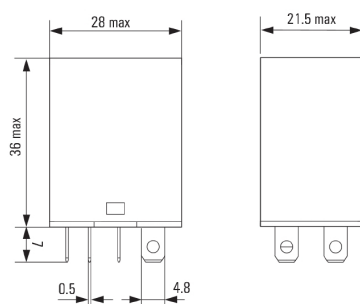
Electrical service life

Graph



DC operational voltage range

Dimensional drawing

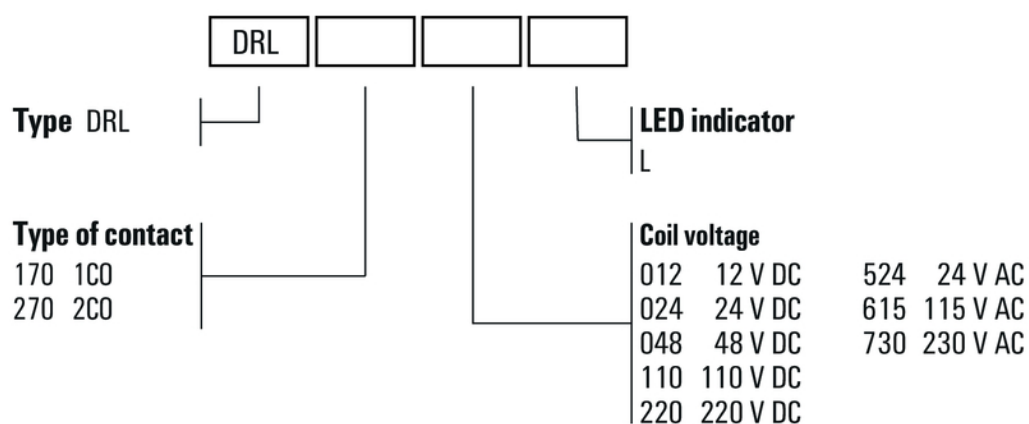


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Drawings

Miscellaneous



Type codes