

DRL170024L**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com**Product image**

Individual relays within the D-SERIES DRL

- 1 CO contact
- Optional AC or DC coils
- With integrated status LED

General ordering data

Version	D-SERIES DRL, Relay, Number 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)
Order No.	1133460000
Type	DRL170024L
GTIN (EAN)	4032248952915
Qty.	20 pc(s).

Creation date March 23, 2021 1:22:16 AM CET

Catalogue status 12.03.2021 / We reserve the right to make technical changes.

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Technical data**Dimensions and weights**

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

Temperatures

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

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
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Rated data UL

Certificate No. (cURus)	E312083
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Control side

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

Load side

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

Contact data

Contact type	1 CO contact (AgCdO)	Contact resistance	≤ 50 m Ω
Mechanical service life	10 x 10 ⁶ switching cycles		

General data

Test button	No	
Mechanical switch position indicator	Yes	
Colour	Transparent	
UL94 flammability rating component	Component	Relay cover
	UL94 flammability rating	V-2
	Component	Relay baseplate
	UL94 flammability rating	V-0
	Component	Relay status indicator
	UL94 flammability rating	HB

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Insulation coordination

Creepage and clearance distance input – output	≥ 4 mm	Dielectric strength of open contact	1.2 kV _{eff} / 1 min.
Dielectric strength, Input/Output	2 kV _{eff} / 1 min	Impulse withstand voltage	5 kV (1.2/50 μs)
Insulating material group	IIIa	Pollution severity	3
Protection degree	IP20	Rated voltage	250 V
Surge voltage category	III		

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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Connection data

Wire connection method	Flat blade connections (4.8 mm x 0.5 mm)
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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	ECLASS 11.0	27-37-16-01

Important note

Product information	This article uses an exemption named in Annex III of the RoHS Directive 2011/65/EU "8b - Cadmium and cadmium compounds in electrical contacts", which could only be valid until 21.07.2021, depending on the product category. Please check whether you can use this article depending on the place of marketing and the product category concerned. Alternative product with modified contact material:
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Approvals

Approvals



ROHS	Conform
UL File Number Search	E312083

Downloads

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

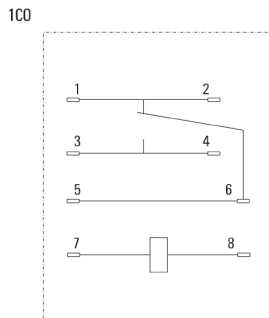
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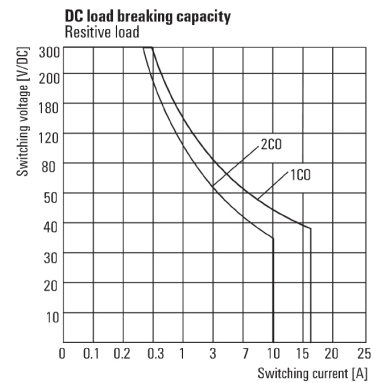
Drawings

Wiring diagram

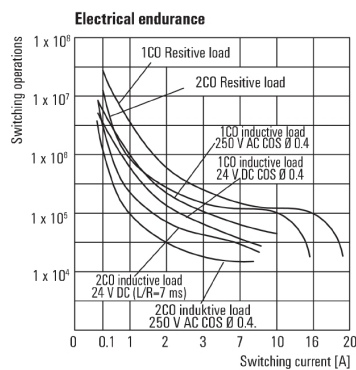


View of Pins from below

Graph



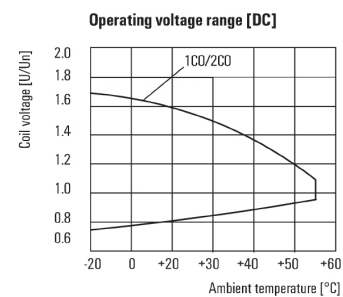
Graph



Electrical service life

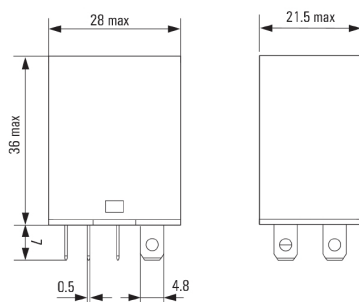
Graph

DC load limit curve
Resistive load



DC operational voltage range

Dimensional drawing

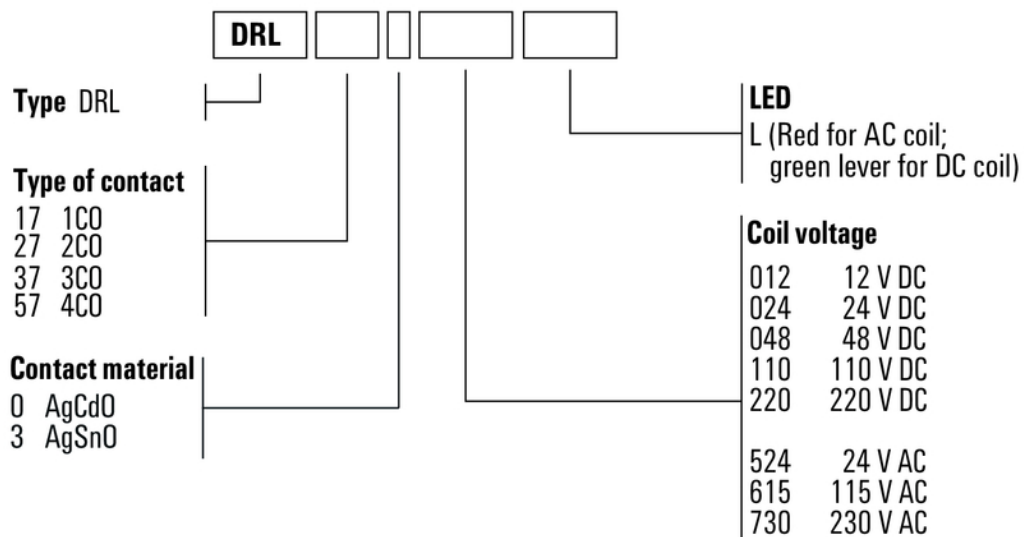


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Type codes