Data sheet

# DRL273110L

**Weidmüller Interface GmbH & Co. KG**
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

## Product image




Similar to illustration

Individual relays within the D-SERIES DRL

- 2 CO contacts
- Optional AC or DC coils
- With integrated status LED

## General ordering data

| | |
|---|---|
| Version | D-SERIES DRL, Relay, Number of contacts: 2, CO contact AgSnO, Rated control voltage: 110 V DC, Continuous current: 10 A, Flat blade connections (4.8 mm x 0.5 mm), Test button available: No |
| Order No. | 2765180000 |
| Type | DRL273110L |
| GTIN (EAN) | 4064675077015 |
| Qty. | 20 items |



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# Technical data

### Approvals

| | |
|---|---|
| Approvals | |
| ROHS | Conform |
| UL File Number Search | UL Website |
| Certificate No. (cURus) | E312083 |

### Dimensions and weights

| | | | |
|---|---|---|---|
| Depth | 36 mm | Depth (inches) | 1.4173 inch |
| Height | 28 mm | Height (inches) | 1.1024 inch |
| Width | 21.5 mm | Width (inches) | 0.8465 inch |
| Net weight | 33.55 g | | |

### Temperatures

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

### Environmental Product Compliance

| | |
|---|---|
| RoHS Compliance Status | Compliant without exemption |
| REACH SVHC | No SVHC above 0.1 wt% |

### Rated data UL

| | |
|---|---|
| Certificate No. (cURus) | E312083 |

### Control side

| | | | |
|---|---|---|---|
| Rated control voltage | 110 V DC | Rated current DC | 10 mA |
| Power rating | 0.9 W | Coil resistance | 11000 Ω ± 10 % |
| Status indicator | Green LED | | |

### Load side

| | | | |
|---|---|---|---|
| Rated switching voltage | 250 V AC | Continuous current | 10 A |
| Switching frequency (rated load), max. | 0.1 Hz | Switching voltage (AC), max. | 250 V |
| Inrush current | 50 A / 50 ms | AC switching capacity (resistive), max. | 2500 VA |
| DC switching capacity (resistive), max. | 300 W @ 24 V | Switch-on delay | <20 ms |
| Switch-off delay | <20 ms | Contact type | 2 CO contact (AgSnO) |
| Mechanical service life | 10 x 106 switching cycles | Min. switching power | 10 mA @ 12 V |

### General data

| | | |
|---|---|---|
| Test button available | No | |
| Mechanical switch position indicator available | 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 |



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| | | | |
|---|---|---|---|
| | UL94 flammability rating | HB | |

### Insulation coordination

| | | | |
|---|---|---|---|
| Rated voltage | 250 V | Pollution severity | 3 |
| Surge voltage category | III | Insulating material group | IIIa |
| Clearance and creepage distances for control side - load side | ≥ 4 mm | Dielectric strength for control side - load side | 2.5 kVeff/ 1 min |
| Dielectric strength of neighbouring contacts | 1.2 kVeff /1 min. | Dielectric strength of open contact | 2 kVeff / 1 min |
| Impulse withstand voltage | 5 kV (1.2/50 µs) | Protection degree | IP20 |

### Further details of approvals / standards

| | |
|---|---|
| Certificate No. (cURus) | E312083 |

### Connection data

| | |
|---|---|
| Wire connection method | Flat blade connections (4.8 mm x 0.5 mm) |

### Classifications

| | | | |
|---|---|---|---|
| ETIM 8.0 | EC001437 | ETIM 9.0 | EC001437 |
| ETIM 10.0 | EC001437 | ECLASS 14.0 | 27-37-16-01 |
| ECLASS 15.0 | 27-37-16-01 | | |



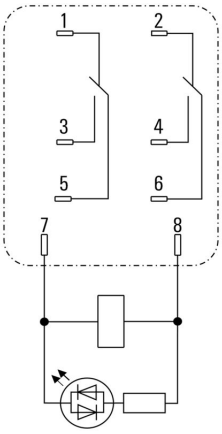
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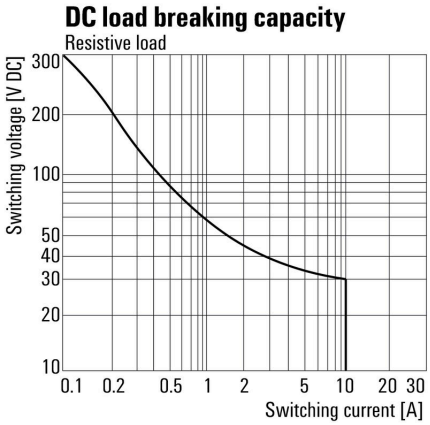
# Drawings

## Wiring diagram



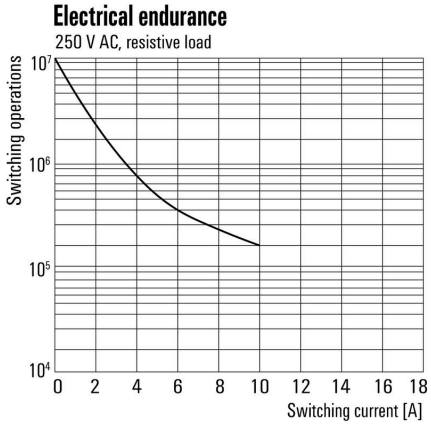

View of Pins from below

## DC load limit curve



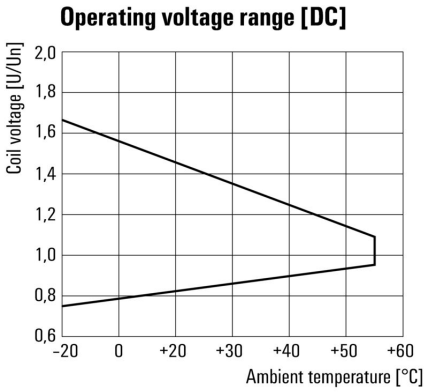

DC load limit curve Resistive load

## Graph



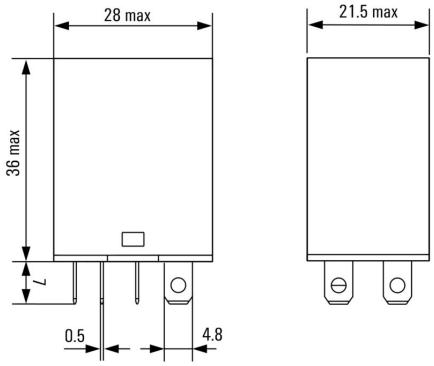

Electrical service life

## Graph




DC operational voltage range

## Dimensional drawing






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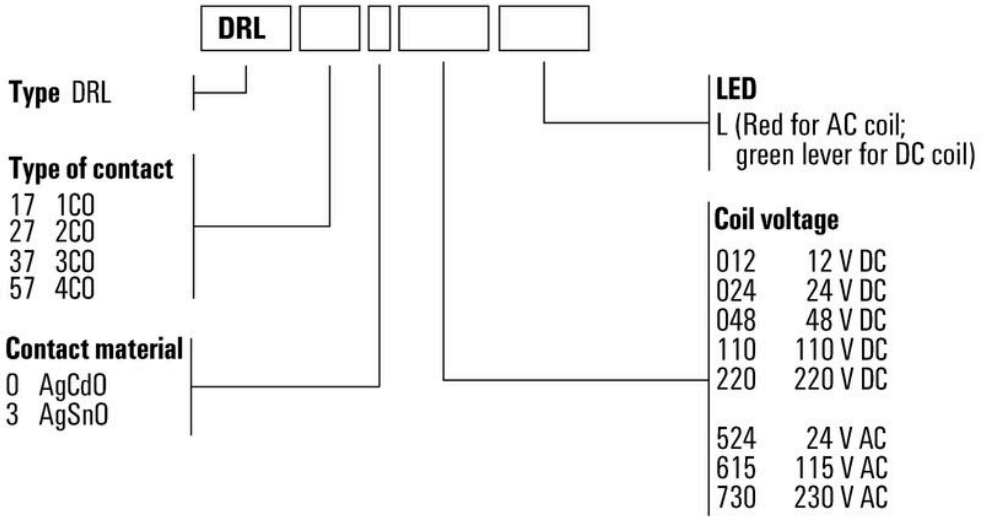
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## Drawings

### Miscellaneous




Type codes



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