

**DRL270012L****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://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 AgCdO, Rated control voltage: 12 V DC, Continuous current: 10 A, Flat blade connections (4.8 mm x 0.5 mm), Test button available: No |
| Order No.           | <a href="#">1133510000</a>                                                                                                                                                                  |
| Type                | DRL270012L                                                                                                                                                                                  |
| GTIN (EAN)          | 4032248952953                                                                                                                                                                               |
| Qty.                | 20 pc(s).                                                                                                                                                                                   |
| Delivery status     | <b>Discontinued</b>                                                                                                                                                                         |
| Available until     | 2021-04-30                                                                                                                                                                                  |
| Alternative product | <a href="#">2765150000</a>                                                                                                                                                                  |

Creation date June 29, 2025 4:15:45 AM CEST

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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 |
| Width      | 21.5 mm | Width (inches)  | 0.846 inch |
| Net weight | 35 g    |                 |            |

**Temperatures**

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

**Rated data UL**

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

**Control side**

|                       |           |                  |              |
|-----------------------|-----------|------------------|--------------|
| Rated control voltage | 12 V DC   | Rated current DC | 75 mA        |
| Power rating          | 0.9 W     | Coil resistance  | 160 Ω ± 10 % |
| Status indicator      | Green LED |                  |              |

**Load side**

|                                         |                      |                                         |                                       |
|-----------------------------------------|----------------------|-----------------------------------------|---------------------------------------|
| Rated switching voltage                 | 250 V AC             | Continuous current                      | 10 A                                  |
| Max. switching frequency at rated load  | 0.1 Hz               | Inrush current                          | 50 A / 50 ms                          |
| AC switching capacity (resistive), max. | 2500 VA              | DC switching capacity (resistive), max. | 240 W @ 24 V                          |
| Switch-on delay                         | < 20 ms              | Switch-off delay                        | < 20 ms                               |
| Contact type                            | 2 CO contact (AgCdO) | Mechanical service life                 | 10 x 10 <sup>6</sup> switching cycles |
| Min. switching power                    | 100 mA @ 12 V        |                                         |                                       |

**General data**

|                                      |                          |                        |
|--------------------------------------|--------------------------|------------------------|
| Test button available                | 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                     |

**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 kV <sub>eff</sub> / 1 min    |
| Dielectric strength of neighbouring contacts                  | 1.2 kV <sub>eff</sub> / 1 min. | Dielectric strength of open contact              | 1.2 kV <sub>eff</sub> / 1 min. |
| Impulse withstand voltage                                     | 5 kV (1.2/50 μs)               | Protection degree                                | IP20                           |

**Further details of approvals / standards**

|                         |         |
|-------------------------|---------|
| Certificate No. (cURus) | E312083 |
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**Technical data****Connection data**

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

**Classifications**

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC001437    | ETIM 7.0    | EC001437    |
| ETIM 8.0    | EC001437    | ETIM 9.0    | EC001437    |
| ETIM 10.0   | 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 | ECLASS 12.0 | 27-37-16-01 |
| ECLASS 13.0 | 27-37-16-01 | ECLASS 14.0 | 27-37-16-01 |
| ECLASS 15.0 | 27-37-16-01 |             |             |

**Approvals**

Approvals



|                         |                                                                                                                                                                             |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Approvals MAMID         | <a href="https://mdcop.weidmueller.com/mediadelivery/rendition/900_319230/-T1z1mm-S800/">https://mdcop.weidmueller.com/mediadelivery/rendition/900_319230/-T1z1mm-S800/</a> |
| UL File Number Search   | UL Website                                                                                                                                                                  |
| Certificate No. (cURus) | E312083                                                                                                                                                                     |

**Environmental Product Compliance**

|            |                                      |
|------------|--------------------------------------|
| REACH SVHC | Cadmiumoxid 1306-19-0                |
| SCIP       | d639b09c-1311-4897-9d28-417da254eb99 |

**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: |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**Downloads**

|                             |                                                                                                                |
|-----------------------------|----------------------------------------------------------------------------------------------------------------|
| Engineering Data            | <a href="#">CAD data – STEP</a>                                                                                |
| Product Change Notification | <a href="#">Product Change Notification - Deutsch</a><br><a href="#">Product Change Notification - English</a> |
| Catalogues                  | <a href="#">Catalogues in PDF-format</a>                                                                       |
| Brochures                   |                                                                                                                |

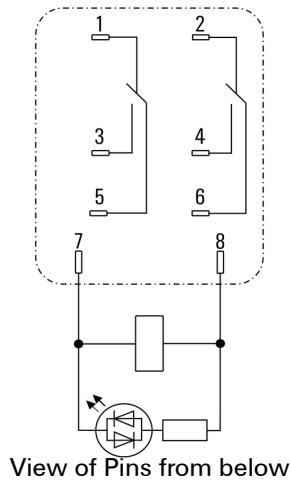
## DRL270012L

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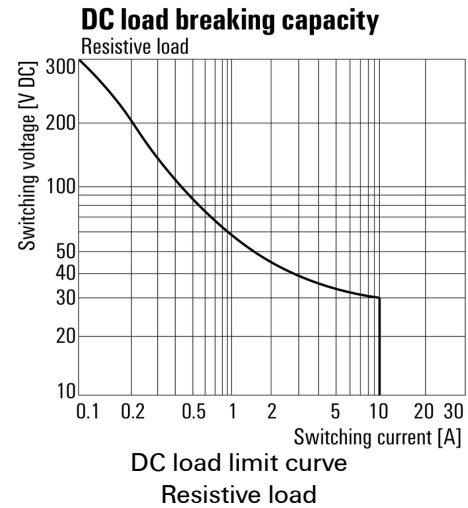
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## Drawings

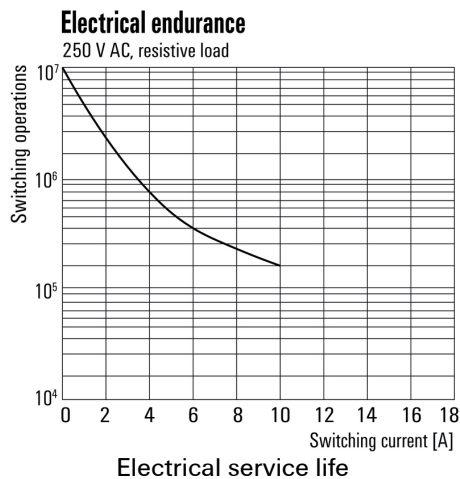
### Wiring diagram



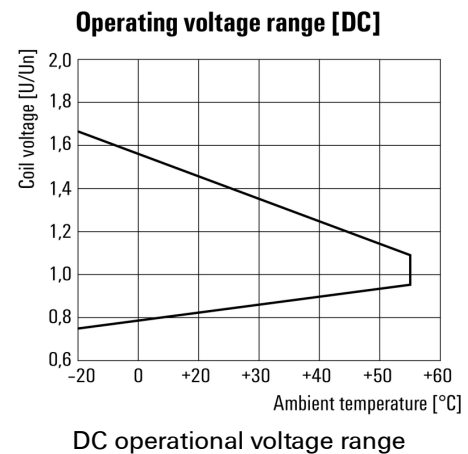
### DC load limit curve



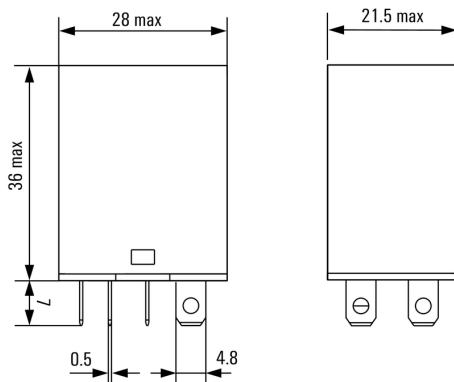
### Graph



### Graph



### Dimensional drawing



## DRL270012L

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## Accessories

## Blank



ESG is the tried-and-tested marker in MultiCard format for use on many well-known electrical devices. The result is high-quality device marking with a high-contrast appearance.

Various types are available for devices from manufacturers like Siemens, ABB, Beckhoff etc.

Advantages at a glance:

- Tags for universal usage, self-adhesive or clip-on tags, depending on type
- For aligned equipment, e.g. circuit breakers, we supply ESG markers for clipping onto tag rails
- Individual laser-quality printing according to specifications

**For custom printing:** Please send us a file of our labeling software M-Print PRO or M-Print PRO Online (without installation) for your labeling specifications.

## General ordering data

|            |                            |                                                                   |
|------------|----------------------------|-------------------------------------------------------------------|
| Type       | ESG 6/17 K MC NE WS        | Version                                                           |
| Order No.  | <a href="#">1880120000</a> | ESG, Device markers x 17 mm, PA 66, Colour: white, Self-adhesive  |
| GTIN (EAN) | 4032248478804              |                                                                   |
| Qty.       | 200 pc(s).                 |                                                                   |
| Type       | ESG 6/17 K MC NE GE        | Version                                                           |
| Order No.  | <a href="#">1880110000</a> | ESG, Device markers x 17 mm, PA 66, Colour: yellow, Self-adhesive |
| GTIN (EAN) | 4032248478798              |                                                                   |
| Qty.       | 200 pc(s).                 |                                                                   |

## ESG 6/17

**Guaranteed long service life: ESG**

The multi-colour and multi-format labels have a strong adhesive layer to ensure the best possible adhesion to the underlying surface. Double laminated polyester makes the basic material very thin and yet extremely tear-resistant.

**Your benefits with MultiMark**

- "Different materials for various requirements"
- Can be used with equipment from many manufacturers
- Device markers with a familiar design

## General ordering data

|            |                            |                                       |
|------------|----------------------------|---------------------------------------|
| Type       | ESG 6/17 MM WS             | Version                               |
| Order No.  | <a href="#">2005100000</a> | ESG, Device markers, 6 x 17 mm, white |
| GTIN (EAN) | 4050118390728              |                                       |
| Qty.       | 3,000 pc(s).               |                                       |

## DRL270012L

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## Accessories

## Sockets



Relay sockets for the D-SERIES DRL relays

- 2, 3 and 4 CO contacts
- Screw connection

## General ordering data

|            |                            |                                                                |
|------------|----------------------------|----------------------------------------------------------------|
| Type       | SLD F 2CO                  | Version                                                        |
| Order No.  | <a href="#">7760056225</a> | D-SERIES DRL, Relay socket, Number of contacts: 2, CO contact, |
| GTIN (EAN) | 6944169634017              | Continuous current: 10 A, Screw connection                     |
| Qty.       | 10 pc(s).                  |                                                                |

## ESG 6/15

**Guaranteed long service life: ESG**

The multi-colour and multi-format labels have a strong adhesive layer to ensure the best possible adhesion to the underlying surface. Double laminated polyester makes the basic material very thin and yet extremely tear-resistant.

**Your benefits with MultiMark**

- "Different materials for various requirements"
- Can be used with equipment from many manufacturers
- Device markers with a familiar design

## General ordering data

|            |                            |                                       |
|------------|----------------------------|---------------------------------------|
| Type       | ESG 6/15 MM WS             | Version                               |
| Order No.  | <a href="#">2619940000</a> | ESG, Device markers, 6 x 15 mm, white |
| GTIN (EAN) | 4050118626148              |                                       |
| Qty.       | 3,000 pc(s).               |                                       |

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- Tags for universal usage, self-adhesive or clip-on tags, depending on type
- For aligned equipment, e.g. circuit breakers, we supply ESG markers for clipping onto tag rails
- Individual laser-quality printing according to specifications

**For custom printing:** Please send us a file of our labeling software M-Print PRO or M-Print PRO Online (without installation) for your labeling specifications.

## General ordering data

|            |                            |                                                                   |
|------------|----------------------------|-------------------------------------------------------------------|
| Type       | ESG 6/15 K MC NE GE        | Version                                                           |
| Order No.  | <a href="#">1880130000</a> | ESG, Device markers x 15 mm, PA 66, Colour: yellow, Self-adhesive |
| GTIN (EAN) | 4032248478910              |                                                                   |
| Qty.       | 200 pc(s).                 |                                                                   |
| Type       | ESG 6/15 K MC NE WS        | Version                                                           |
| Order No.  | <a href="#">1880100000</a> | ESG, Device markers x 15 mm, PA 66, Colour: white, Self-adhesive  |
| GTIN (EAN) | 4032248478781              |                                                                   |
| Qty.       | 200 pc(s).                 |                                                                   |

## LED



Pluggable protective modules for the D-SERIES relay sockets, with optional protective functions.

- With green LED

## General ordering data

|            |                            |                                                                              |
|------------|----------------------------|------------------------------------------------------------------------------|
| Type       | RIM 3 6/24VUC              | Version                                                                      |
| Order No.  | <a href="#">7940018457</a> | D-SERIES, LED module, Rated control voltage: 6...24 V UC, Plug-in connection |
| GTIN (EAN) | 4032248878192              |                                                                              |
| Qty.       | 10 pc(s).                  |                                                                              |

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[www.weidmueller.com](http://www.weidmueller.com)**Accessories****Retaining clips**

Retaining clip for D-SERIES DRM relays

- Metal and plastic retaining clip

**General ordering data**

|            |                            |                          |
|------------|----------------------------|--------------------------|
| Type       | DRM/DRL CLIP M             | Version                  |
| Order No.  | <a href="#">7760056108</a> | D-SERIES, Retaining clip |
| GTIN (EAN) | 4032248855568              |                          |
| Qty.       | 10 pc(s).                  |                          |

**LED / free-wheel diode**

Pluggable protective modules for the D-SERIES relay sockets, with optional protective functions.

- With green LED and free-wheeling diode

**General ordering data**

|            |                            |                                                                   |
|------------|----------------------------|-------------------------------------------------------------------|
| Type       | RIM 2 6/24VDC              | Version                                                           |
| Order No.  | <a href="#">7760056015</a> | 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

## Protection modules



Pluggable protective modules for the D-SERIES relay sockets, with optional protective functions.

- With free-wheeling diode or RC filter

## General ordering data

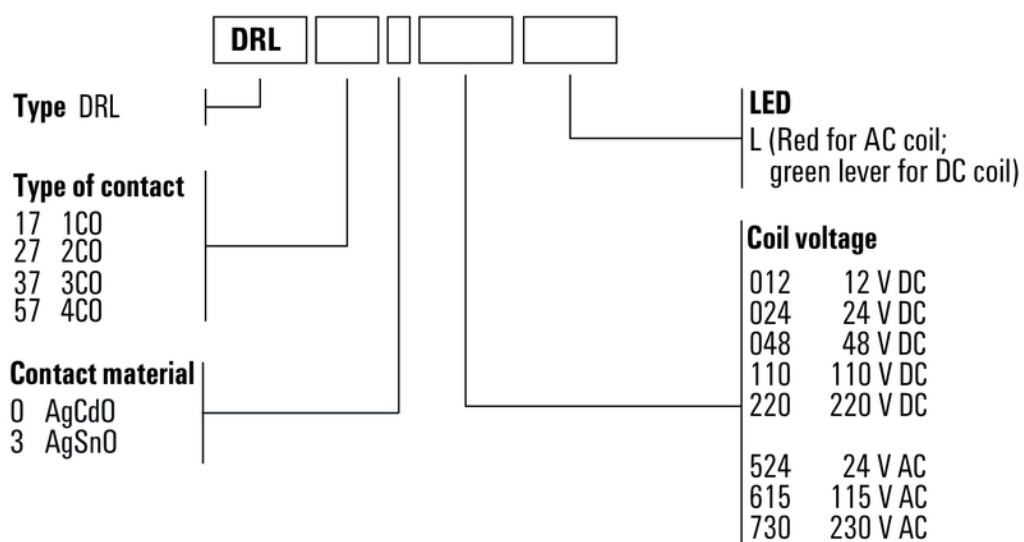
|            |                            |                                                                        |
|------------|----------------------------|------------------------------------------------------------------------|
| Type       | RIM 1 6/230VDC             | Version               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

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Type codes

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