

**DRL173024L****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

- 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 AgSnO, Rated control voltage: 24 V DC, Continuous current: 16 A, Flat blade connections (4.8 mm x 0.5 mm), Test button available: No |
| Order No.  | <a href="#">2765110000</a>  |
| Type       | DRL173024L  |
| GTIN (EAN) | 4064675077084   |
| Qty.       | 20 pc(s).   |

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Catalogue status 01.06.2024 / 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 |
| Width      | 21.5 mm | Width (inches)  | 0.846 inch |
| Net weight | 36.4 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 | 24 V DC | Rated current DC | 36.9 mA               |
| Power rating          | 0.9 W   | Coil resistance  | 630 $\Omega \pm 10\%$ |
| Coil tolerance        | 10 %    | Status indicator | Green LED             |

**Load side**

|   |                                       |   |                      |
|---|---------------------------------------|---|----------------------|
| Rated switching voltage                 | 250 V AC                              | Continuous current                      | 16 A                 |
| Max. switching frequency at rated load  | 0.1 Hz                                | Max. switching voltage, AC              | 250 V                |
| Inrush current                          | 80 A / 50 ms                          | AC switching capacity (resistive), max. | 4000 VA              |
| DC switching capacity (resistive), max. | 480 W @ 24 V                          | Switch-on delay                         | <20 ms               |
| Switch-off delay                        | <20 ms                                | Contact type                            | 1 CO contact (AgSnO) |
| Mechanical service life                 | 10 x 10 <sup>6</sup> switching cycles | Min. switching power                    | 10 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 | $\geq 4$ mm                 | Dielectric strength for control side - load side | 2.5 kV <sub>eff</sub> / 1 min  |
| Dielectric strength of neighbouring contacts                  | 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 $\mu$ s)       | Protection degree                                | IP20                           |

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[www.weidmueller.com](http://www.weidmueller.com)**Technical data****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 6.0    | EC001437    | ETIM 7.0    | EC001437    |
| ETIM 8.0    | EC001437    | ETIM 9.0    | 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 |

**Approvals**

Approvals



ROHS Conform

UL File Number Search UL Website

Certificate No. (cURus) E312083

**Downloads**Approval/Certificate/Document of Conformity [EU Konformitätserklärung / EU Declaration of Conformity](#)Engineering Data [CAD data – STEP](#)User Documentation [FL\\_D-SERIES\\_DRL1CO\\_LOAD\\_GUIDE](#)Catalogues [Catalogues in PDF-format](#)

## DRL173024L

Weidmüller Interface GmbH &amp; Co. KG

Klingenbergstraße 26

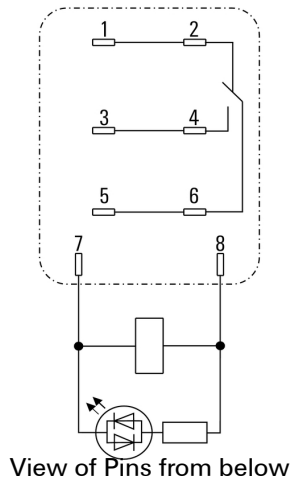
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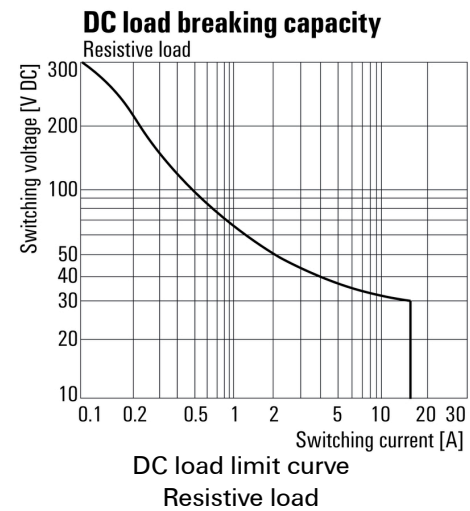
www.weidmueller.com

## Drawings

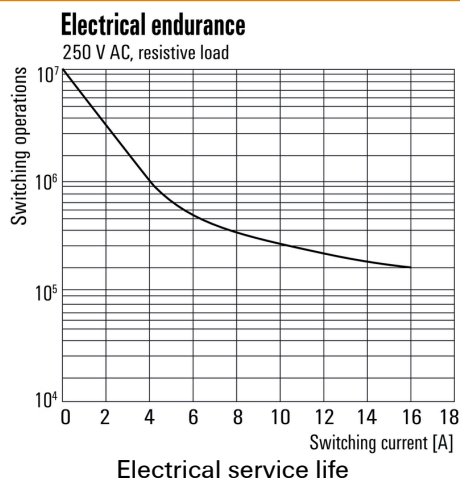
## Wiring diagram



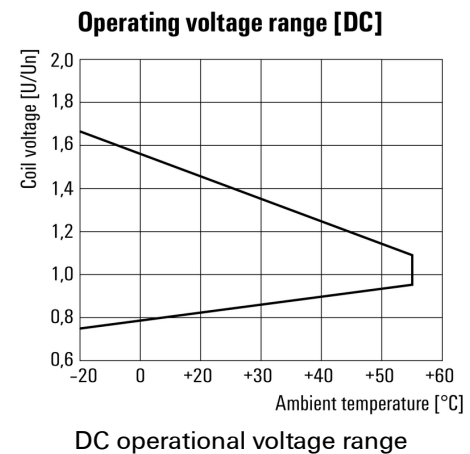
## DC load limit curve



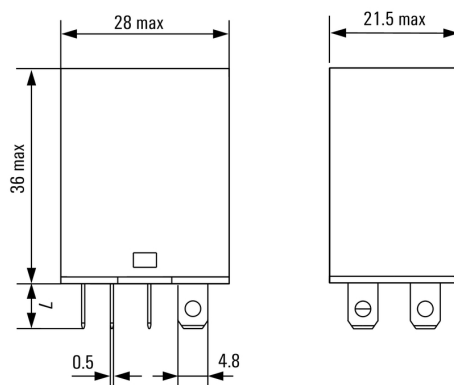
## Graph



## Graph



## Dimensional drawing



## DRL173024L

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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).                  |  |

## 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 6/15 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).                 |   |

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## Accessories

## 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).               |                                       |

## 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).                  |  |

|            |                            |   |
|------------|----------------------------|---|
| Type       | RIM 3 24/60VUC             | Version   |
| Order No.  | <a href="#">7760056018</a> | D-SERIES, LED module, Rated control voltage: 24...60 V UC, Plug-in connection |
| GTIN (EAN) | 4032248878130              |   |
| Qty.       | 10 pc(s).                  |   |

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## Accessories

## 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 24/60VDC             | Version   |
| Order No.  | <a href="#">7760056016</a> | D-SERIES, LED module with freewheel diode, Rated control voltage: |
| GTIN (EAN) | 4032248878123              | 24...60 V DC, Plug-in connection                                  |
| Qty.       | 10 pc(s).                  |   |
| 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).                  |   |

## 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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[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).                  |                          |

**ESG 6/15****Guaranteed long service life: ESG**

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- 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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[www.weidmueller.com](http://www.weidmueller.com)**Accessories****Blank**

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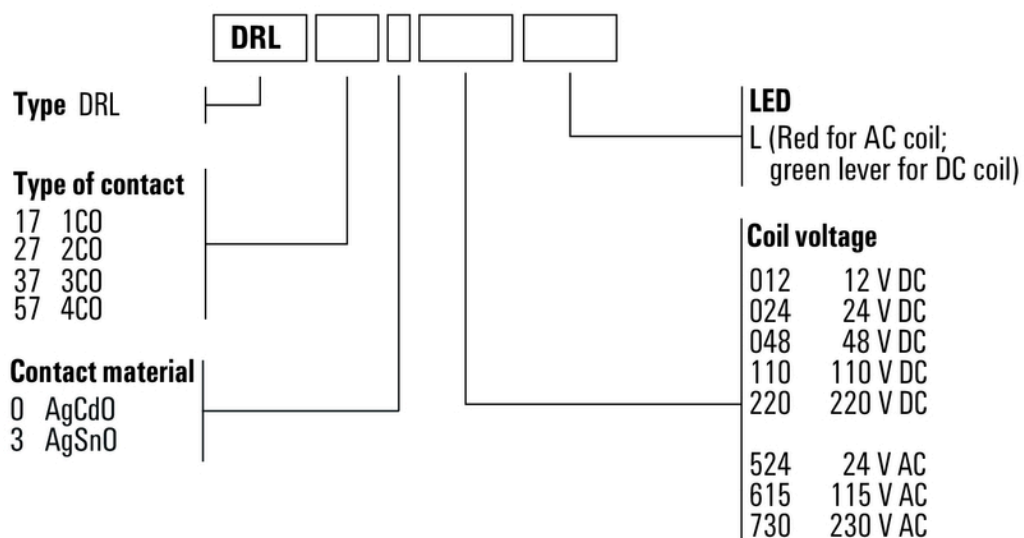
|            |                            |   |
|------------|----------------------------|---|
| Type       | ESG 6/17 K MC NE GE        | Version   |
| Order No.  | <a href="#">1880110000</a> | ESG, Device markers x 17 mm, PA 66, Colour: yellow, Self-adhesive |
| GTIN (EAN) | 4032248478798        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

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[www.weidmueller.com](http://www.weidmueller.com)**Drawings****Miscellaneous**

Type codes