

**D-SERIES DRI  
DRI314048LTD****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 16

D-32758 Detmold

Germany

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www.weidmueller.com



Relay from the D-SERIES DRI

- 1 or 2 CO contacts
- Robust industrial plug-in connections
- Optional: latching / spring return operable test button with coloured control voltage identification (AC coil: red / DC coil: blue)
- Optional: Mechanical switch position indication (for version with test button)
- Optional: Bright status LED (AC coil: red / DC coil: green)
- Optional: free-wheeling diode

**General ordering data**

| Type       | DRI314048LTD                                                                                                                                                                 |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Order No.  | <a href="#">7760056316</a>                                                                                                                                                   |
| Version    | D-SERIES DRI, Relay, No. of contacts: 1 CO contact with test button AgNi, Rated control voltage: 48 V DC, Continuous current: 10 A, Flat blade connections (4.7 mm x 0.5 mm) |
| GTIN (EAN) | 6944169740213                                                                                                                                                                |
| Qty.       | 20 pc(s).                                                                                                                                                                    |

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**Technical data**
**Dimensions and weights**

|            |         |                 |            |
|------------|---------|-----------------|------------|
| Width      | 13 mm   | Width (inches)  | 0.512 inch |
| Height     | 31 mm   | Height (inches) | 1.22 inch  |
| Depth      | 33.5 mm | Depth (inches)  | 1.319 inch |
| Net weight | 2.7 g   |                 |            |

**Temperatures**

|                     |                                          |                       |                |
|---------------------|------------------------------------------|-----------------------|----------------|
| Humidity            | 35...85 % rel. humidity, no condensation | Operating temperature | -40 °C...55 °C |
| Storage temperature | -40 °C...85 °C                           |                       |                |

**Input**

|                       |                        |                                |                 |
|-----------------------|------------------------|--------------------------------|-----------------|
| Rated control voltage | 48 V DC                | Rated current DC               | 11,2 mA         |
| Power rating          | 530 mW                 | Pull-in/drop-out voltage, typ. | 36 V / 7.2 V DC |
| Coil resistance       | 4300 $\Omega \pm 10\%$ | Status indicator               | Green LED       |
| Protective circuit    | Free-wheel diode       |                                |                 |

**Output**

|                                         |                            |                                         |              |
|-----------------------------------------|----------------------------|-----------------------------------------|--------------|
| Rated switching voltage                 | 250 V AC                   | Max. switching voltage, AC              | 250 V        |
| Max. switching voltage, DC              | 250 V                      | Continuous current                      | 10 A         |
| AC switching capacity (resistive), max. | 2500 VA                    | DC switching capacity (resistive), max. | 240 W @ 24 V |
| Switch-on delay                         | $\leq 15$ ms               | Switch-off delay                        | $\leq 10$ ms |
| Min. switching power                    | 10 mA @ 12 V, 100 mA @ 5 V | Max. switching frequency at rated load  | 0.1 Hz       |

**Contact data**

|              |                                      |                         |                                       |
|--------------|--------------------------------------|-------------------------|---------------------------------------|
| Contact type | 1 CO contact with test button (AgNi) | Mechanical service life | 10 x 10 <sup>6</sup> switching cycles |
|--------------|--------------------------------------|-------------------------|---------------------------------------|

**General data**

|             |                |                                      |     |
|-------------|----------------|--------------------------------------|-----|
| Test button | yes (lockable) | Mechanical switch position indicator | Yes |
|-------------|----------------|--------------------------------------|-----|

**Insulation coordination**

|                                                |                       |                                     |                             |
|------------------------------------------------|-----------------------|-------------------------------------|-----------------------------|
| Rated voltage                                  | 300 V                 | Surge voltage category              | III                         |
| Pollution severity                             | 2                     | Insulating material group           | IIIa                        |
| Protection degree                              | IP20                  | Dielectric strength input – output  | 5 kV <sub>eff</sub> / 1 min |
| Creepage and clearance distance input – output | $\geq 4$ mm           | Dielectric strength of open contact | 1 kV <sub>eff</sub> / 1 min |
| Impulse withstand voltage                      | 5 kV (1.2/50 $\mu$ s) |                                     |                             |

**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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**Technical data**
**Connection data**

|                        |                                             |
|------------------------|---------------------------------------------|
| Wire connection method | Flat blade connections<br>(4.7 mm x 0.5 mm) |
|------------------------|---------------------------------------------|

**Classifications**

|            |             |            |             |
|------------|-------------|------------|-------------|
| ETIM 5.0   | EC001437    | ETIM 6.0   | EC001437    |
| eClass 6.2 | 27-37-16-01 | 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

**Downloads**

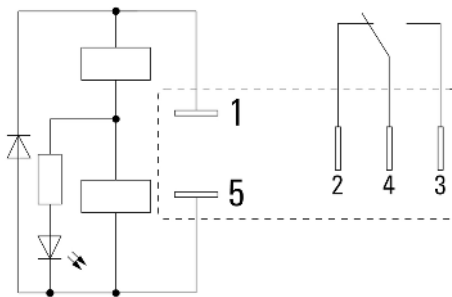
|                                                |                                           |
|------------------------------------------------|-------------------------------------------|
| Approval/Certificate/Document of<br>Conformity | <a href="#">DE_PA_5600_160310_002.pdf</a> |
| Engineering Data                               | <a href="#">EPLAN.WSCAD</a>               |

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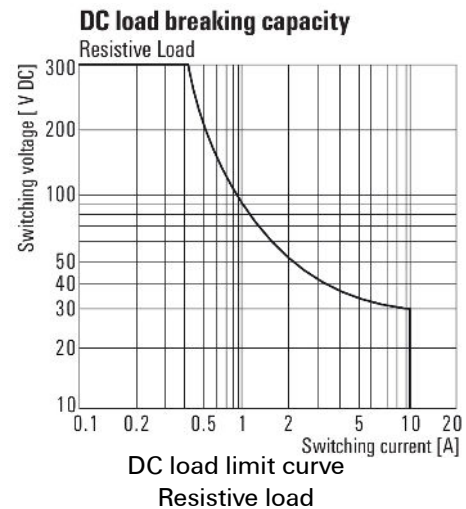
## Drawings

### Wiring diagram

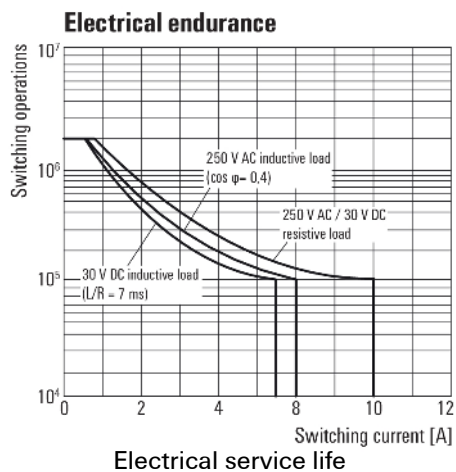


View of Pins from below

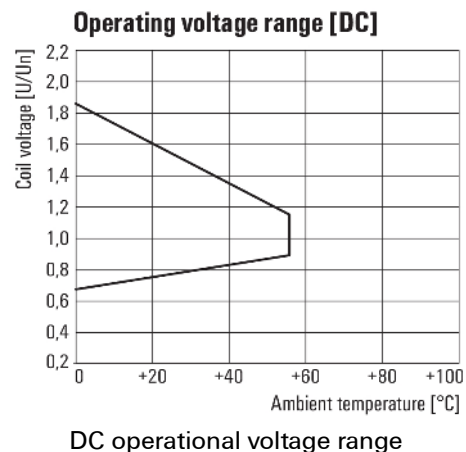
### Graph



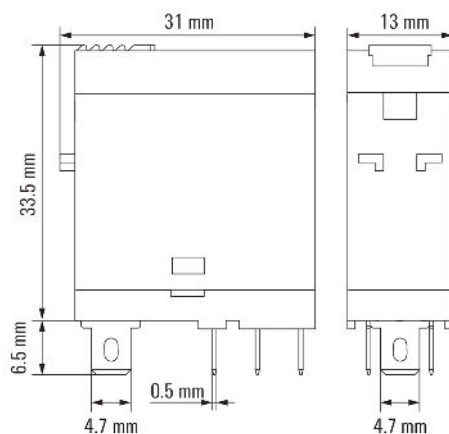
### Graph



### Graph



### Dimensional drawing



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**Drawings**
**Miscellaneous**

|                                                  |                                                                                                                                                                                                                                                               |  |  |  |  |  |
|--------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|
| Type code                                        | <div> <div>DRI</div> <div></div> <div></div> <div></div> <div></div> <div></div> </div>                                                                                                                                                                       |  |  |  |  |  |
| Type                                             | DRI                                                                                                                                                                                                                                                           |  |  |  |  |  |
| Type of construction                             | <div> <div>314</div> <div>1 CO contact</div> <div>424</div> <div>2 CO contacts</div> </div>                                                                                                                                                                   |  |  |  |  |  |
| Coil voltage                                     | <div> <div>012</div> <div>12 V DC</div> <div>524</div> <div>24 V AC</div> <div>024</div> <div>24 V DC</div> <div>615</div> <div>115 V AC</div> <div>048</div> <div>48 V DC</div> <div>730</div> <div>230 V AC</div> <div>110</div> <div>110 V DC</div> </div> |  |  |  |  |  |
| LED                                              | L (Red for AC coil; green for DC coil)                                                                                                                                                                                                                        |  |  |  |  |  |
| Test lever including mechanical status indicator | T (Red lever for AC coil; blue lever for DC coil)                                                                                                                                                                                                             |  |  |  |  |  |
| Free wheeling diode                              | D                                                                                                                                                                                                                                                             |  |  |  |  |  |

Type codes