

## RS-SERIES

### RS 30 48VDC LD LP 1A

**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 16  
 D-32758 Detmold  
 Germany  
 Fon: +49 5231 14-0  
 Fax: +49 5231 14-292083  
 www.weidmueller.com



Clip-on RS 30. 31. 32 relay bases are available in widths from 11.2 to 25 mm, depending on the type.

The RSM relay multiplexers are available as 4, 8 and 16-way modules. To reduce the wiring work, the DC variants are fitted with a common plus or minus potential. The optional IEC603-1 plug-in connector enables the connection of pre-assembled lines.

The screw connection system is used to connect the conductor with a rated cross-section of 2.5 mm<sup>2</sup>.

#### General ordering data

|            |  |
|------------|--|
| Order No.  | <a href="#">1101821001</a>   |
| Type       | RS 30 48VDC LD LP 1A   |
| Version    | RS-SERIES, Relays, No. of contacts: 1, NO contact, AgNi 0.15 gold flashed, Rated control voltage: 48 V DC ±10 %, Continuous current: 6 A, Screw connection |
| GTIN (EAN) | 4032248045907  |
| Qty.       | 10 pc(s).  |

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**Technical data****Ratings**

|                             |                  |          |   |
|-----------------------------|------------------|----------|---|
| Conductor connection system | Screw connection | Humidity | 40 °C / 93 % rel. humidity, no condensation |
|-----------------------------|------------------|----------|---|

**Dimensions and weights**

|       |         |            |       |
|-------|---------|------------|-------|
| Width | 11.2 mm | Height     | 70 mm |
| Depth | 56 mm   | Net weight | 30 g  |

**Temperatures**

|                       |                 |                     |                 |
|-----------------------|-----------------|---------------------|-----------------|
| Operating temperature | -25 °C...+40 °C | Storage temperature | -40 °C...+60 °C |
|-----------------------|-----------------|---------------------|-----------------|

**Connection data**

|  |                     |  |                     |
|--|---------------------|--|---------------------|
| Clamping range, rated connection       | 2.5 mm <sup>2</sup> | Clamping range, rated connection, min. | 0.5 mm <sup>2</sup> |
| Clamping range, rated connection, max. | 4 mm <sup>2</sup>   | Stripping length, rated connection     | 8 mm                |

**Input**

|                                     |               |  |      |
|-------------------------------------|---------------|--|------|
| Rated control voltage               | 48 V DC ±10 % | Rated current DC                               | 8 mA |
| Power rating                        | 0.45 W        | Pull-in (sparkover) / drop-out voltage DC coil | 48 V |
| Pull-in / drop-out current, DC coil | 10 mA / 2 mA  |  |      |

**Output**

|   |              |                      |         |
|---|--------------|----------------------|---------|
| Max. switching voltage, AC making current | 250 V<br>8 A | Continuous current   | 6 A     |
| Switch-on delay                           | ≤ 12 ms      | Max. switching power | 2000 VA |
| Duration of Bounce                        | ≤ 3 ms       | Switch-off delay     | ≤ 11ms  |
| Max. switching frequency at rated load    | 0.1 Hz       | Min. switching power | 250 mW  |

**Contact specifications**

|                                    |                                      |                                  |                                       |
|------------------------------------|--------------------------------------|----------------------------------|---------------------------------------|
| No. of contacts                    | 1                                    | Contact design                   | NO contact                            |
| Contact material                   | AgNi 0.15 gold flashed               | Mechanical service life          | 20 x 10 <sup>6</sup> switching cycles |
| Electrical service life of AC coil | > 7x10 <sup>5</sup> Switching cycles | Electrical service life, DC coil | > 5x10 <sup>5</sup> switching cycles  |

**Insulation coordination**

|                           |       |   |        |
|---------------------------|-------|---|--------|
| Rated voltage             | 250 V | Clearance and creepage distances for control side - load side | > 3 mm |
| Impulse withstand voltage | 4 kV  | Protection degree   | IP 20  |
| Pollution severity        | 2     | Surge voltage category  | III    |

**Other technical data**

|                             |               |                  |     |
|-----------------------------|---------------|------------------|-----|
| Version                     | Relay coupler | Free-wheel diode | Yes |
| Reverse polarity protection | Available     |                  |     |

**Further details of approvals / standards**

|           |              |
|-----------|--------------|
| Standards | DIN EN 50178 |
|-----------|--------------|

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**Technical data****Classifications**

|            |             |            |             |
|------------|-------------|------------|-------------|
| ETIM 2.0   | EC001437    | ETIM 3.0   | EC001437    |
| UNSPSC     | 30-21-19-17 | eClass 4.1 | 40-02-06-14 |
| eClass 5.1 | 27-37-16-01 | eClass 6.0 | 27-37-16-01 |
| eClass 7.0 | 27-37-16-01 |            |             |

**Approvals**

Approvals

**Downloads**Declaration of Conformity [K032\\_09\\_10.pdf](#)