

RS-SERIES

RS 31 115VAC LD LP 1U

Weidmüller Interface GmbH & Co. KG
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 Germany
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 Fax: +49 5231 14-292083
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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 mm².

General ordering data

| | |
|------------|--|
| Order No. | 1150461001 |
| Type | RS 31 115VAC LD LP 1U |
| Version | RS-SERIES, Relays, No. of contacts: 1, CO contact, AgCdO, Rated control voltage: 115 V AC +5 % / -15 %, Continuous current: 16 A, Screw connection |
| GTIN (EAN) | 4032248046836 |
| 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 | 25 mm | Height | 70 mm |
| Depth | 53.5 mm | Net weight | 62.2 g |

Temperatures

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

Connection data

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

Input

| | | | |
|-------------------------------------|-----------------------|-------------------------------------|------|
| Rated control voltage | 115 V AC +5 % / -15 % | Rated current AC | 8 mA |
| Power rating | 1 VA | Response / drop-out voltage AC coil | 98 V |
| Pull-in / drop-out current, AC coil | -/ 1.5 mA | | |

Output

| | | | |
|--|---------------|----------------------|-----------------|
| Max. switching voltage, AC | 250 V | Continuous current | 16 A |
| making current | 60 A / 200 ms | Max. switching power | 3.5 kVA / 480 W |
| Switch-on delay | < 9 ms | Switch-off delay | < 11 ms |
| Duration of Bounce | > 6 ms | Min. switching power | 1 W |
| Max. switching frequency at rated load | 0.1 Hz | | |

Contact specifications

| | | | |
|----------------------------------|---|-------------------------|---------------------------------------|
| No. of contacts | 1 | Contact design | CO contact |
| Contact material | AgCdO | Mechanical service life | 30 x 10 ⁶ switching cycles |
| Electrical service life, DC coil | 230V, 50Hz, 3.5kVA: 2.5*10 ⁵ switching cycles | | |

Insulation coordination

| | | | |
|---------------------------|-------|---|--------|
| Rated voltage | 250 V | Clearance and creepage distances for control side - load side | > 3 mm |
| Impulse withstand voltage | 6 kV | Protection degree | IP 20 |
| Pollution severity | 2 | Surge voltage category | III |

Other technical data

| | | | |
|------------------|---------------|------------------|-----|
| Version | Relay coupler | Free-wheel diode | Yes |
| Bridge rectifier | Yes | | |

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 [K033_10_10.pdf](#)

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Drawings**Electric symbol**