

RS-SERIES

RS 31 24VDC LD LP 1U

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 mm².

General ordering data

| | |
|------------|--|
| Type | RS 31 24VDC LD LP 1U |
| Order No. | 1128361001 |
| Version | RS-SERIES, Relays, No. of contacts: 1, CO contact, AgCdO, Rated control voltage: 24 V DC ±10 %, Continuous current: 16 A, Screw connection |
| GTIN (EAN) | 4032248056705 |
| Qty. | 10 pc(s). |

RS-SERIES
RS 31 24VDC LD LP 1U

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

Technical data
Dimensions and weights

| | | | |
|-------|---------|------------|---------|
| Width | 25 mm | Height | 70 mm |
| Depth | 53.5 mm | Net weight | 40.66 g |

Temperatures

| | | | |
|---------------------|--|-----------------------|-----------------|
| Humidity | 40 °C / 93 % rel. humidity, no condensation | Operating temperature | -25 °C...+40 °C |
| Storage temperature | -40 °C...+60 °C | | |

Input

| | | | |
|------------------------------|------------|------------------------------|--|
| Coil resistance | | Protective circuit | Integrated free-wheel diode, Reverse polarity protection |
| Pull-inrop-out current, typ. | 11.5 mA DC | Rated control voltage | 24 V DC ±10 % |
| Power rating | 1 W | Pull-inrop-out voltage, typ. | 21.5 V DC |
| Status indicator | red LED | | |

Output

| | | | |
|--|---------------|----------------------|-----------------|
| Max. switching voltage, AC | 250 V | Continuous current | 16 A |
| Inrush current | 60 A / 200 ms | Max. switching power | 3.5 kVA / 480 W |
| Switch-on delay | < 9 ms | Switch-off delay | < 10 ms |
| Duration of Bounce | > 6 ms | Min. switching power | 1 W |
| Max. switching frequency at rated load | 0.1 Hz | | |

Contact data

| | | | |
|----------------------------------|---|-------------------------|---------------------------------------|
| 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 | | |

General data

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

Insulation coordination

| | | | |
|--|--------|------------------------|-------|
| Creepage and clearance distance input – output | > 3 mm | Rated voltage | 250 V |
| Impulse withstand voltage | 6 kV | Protection degree | IP 20 |
| Pollution severity | 2 | Surge voltage category | III |

Other technical data

| | | | |
|------------------|---------------|--------------------|--|
| Version | Relay coupler | Protective circuit | Integrated free-wheel diode, Reverse polarity protection |
| Status indicator | red LED | | |

Further details of approvals / standards

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

Creation date March 7, 2014 10:37:03 PM CET

Data sheet

**RS-SERIES
RS 31 24VDC LD LP 1U**

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

Technical data

Connection data

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

Classifications

| | | | |
|------------|-------------|------------|-------------|
| ETIM 3.0 | EC001437 | UNSPSC | 30-21-19-17 |
| eClass 5.1 | 27-37-16-01 | eClass 6.2 | 27-37-16-01 |
| eClass 7.1 | 27-37-16-01 | | |

Approvals

Approvals



ROHS Conform

Downloads

Declaration of Conformity [K033_10_10.pdf](#)

**RS-SERIES
RS 31 24VDC LD LP 1U**

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

Drawings

Electric symbol

