

RS-SERIES

RS 31 24VDC LD LP 1U

Weidmüller Interface GmbH & Co. KG
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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.	1128331001
Type	RS 31 24VDC LD LP 1U
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)	4032248046812
Qty.	10 pc(s).

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Technical data
Ratings

Conductor connection system	Screw connection	Humidity	40 °C / 93 % rel. humidity, no condensation
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Dimensions and weights

Width	25 mm	Height	70 mm
Depth	53.5 mm	Net weight	64.5 g

Temperatures

Operating temperature	-25 °C...+40 °C	Storage temperature	-40 °C...+60 °C
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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	24 V DC ±10 %	Power rating	1 W
Pull-in (sparkover) / drop-out voltage DC coil	21.5 V	Pull-in / drop-out current, DC coil	-/11.5 mA
Status indicator	LED yellow		

Output

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

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	Status indicator	LED yellow
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 [K033_10_10.pdf](#)

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Drawings

Electric symbol

