



**THE DATASHEET OF**  
**1128311001**



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

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 16  
D-32758 Detmold  
Germany  
Fon: +49 5231 14-0  
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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="#">1128311001</a>
Part designation	RS 31 24VDC LD LP 1U
Version	RS-SERIES, Relays, No. of contacts: 1, CO contact, Rated control voltage: 24 V DC ±10 %, Screw connection
GTIN (EAN)	4032248046829
Qty.	10 pc(s).

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

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## Technical data

### Dimensions

Length	70 mm	Width	25 mm
Height	53.5 mm		

### Temperature

Ambient temperature (operational)	-25 °C...+40 °C	Storage temperature	-40 °C...+60 °C
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### Input

Rated voltage	250 V	Rated control voltage	24 V DC ±10 %
Pull-in (sparkover) / drop-out voltage DC coil	21.5V	Rated current DC	40 mA
Pull-in / drop-out current, DC coil	-/11.5mA	Power rating	1 W
Status indicator	Green LED		

### Output

Continuous current	16 A	Duration of Bounce	> 6 ms
Max. switching current	60 A	Max. switching frequency at rated load	0.1 Hz
Min. switching current	100 mA	Sparkover time / Drop-out time	9 ms / 10 ms
Switch-off delay	< 10 ms	Switch-on delay	< 9 ms
Switching voltage AC, max.	250 V	making current	60 A / 200 ms
max. switching capacity	3.5 kVA / 480 V	min. switching capacity	1 W

### Contact data

Contact design	CO contact	No. of contacts	1
Contact material	AgCdO	Mechanical service life	3 x 10 <sup>7</sup> switching cycles
Electrical service life, DC coil	230V, 50Hz, 3.5kVA: 2.5*10 <sup>5</sup> switching cycles		

### Rated data

Conductor connection system	Screw connection	DIN Rail compatibility	TS 32 TS 35
Humidity	40°C / 93% rel. humidity, no condensation		

### Insulation coordination (EN 50 178)

Clearance and creepage distances for control/load side	> 3 mm	Impulse withstand voltage	6 kV
Overvoltage category	III	Pollution severity	2
Protection class	IP 20	Protective separation acc. to VDE 0106 part 101	No
Rated voltage	250 V		

### Other technical data

Free-wheel diode	Yes	Reverse polarity protection	Available
Status indicator	Green LED	Version	Relay coupler

### Approvals

Approvals institutes	GOSTME25; CE
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**Technical data****Classifications**

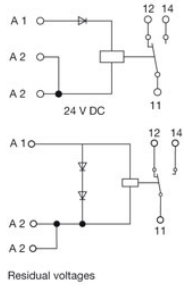
ETIM 2.0	EC001437	ETIM 3.0	EC001437
eClass 5.1	27-37-16-01	eClass 6.0	27-37-16-01

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**Drawings**

**Electric symbol**



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