

RS F40 16RS OUT 24VDC**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

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Germany

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The RS F40 or RS F10 interface elements (for 32 or 8 signals) enable a relay to be used to isolate signals coming from the PLC with sensors and field actuators.

The main characteristics are:

- Tension-clamp or screw connection system
- Signals grouped according to bytes.
- Extremely compact modules in RS 45 profile section for installation on standard TS35 mounting rail.

General ordering data

Type	RS F40 16RS OUT 24VDC
Order No.	8224181001
Version	RCL314024, Screw connection
GTIN (EAN)	4032248063338
Qty.	1 pc(s).

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Technical data

Dimensions and weights

Length	350 mm	Length (inches)	13.78 inch
Width	87 mm	Width (inches)	3.425 inch
Height	76 mm	Height (inches)	2.992 inch
Net weight	748 g		

Temperatures

Operating temperature, max.	55 °C	Operating temperature, min.	0 °C
Storage temperature, max.	70 °C	Storage temperature, min.	-40 °C
Operating temperature	0...55 °C	Storage temperature	-40...70 °C

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
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General data

LED status display per relay	yellow	Disconnecter per relay	No
Fuse per relay	No	Switch	No
LED status of the supply voltage	green	Power supply fuse	No

Connection data

Connection on control side	Plug-in connector in acc. with IEC60603-13 / DIN41651	Number of poles (control side)	40-pole plug
Connection (field side)	LP 5.08mm	Connection supply	LP 5.08mm

Rating data

Mechanical service life	3 x 10 ⁷ switching cycles	Switch-on delay	< 8 ms
Switch-off delay	< 7 ms		

Ratings data input

Input voltage	24 V DC ± 10%	Input current	30 mA
Power rating	0.75 W		

Ratings data output

Min. switching current	100 mA	Relay type	RCL314024
Type of output	Potential-free contact	Contact material	AgNi 90/10
Max. AC continuous current	6 A	AC peak current	8 A
Minimum contact current	0.01 A	Minimum contact voltage	12 V

Insulation coordinates (EN50178)

According to	DIN EN 50178	Rated input insulation voltage	< 50 V AC
Rated output insulation voltage	< 250 V AC	Overvoltage category input/output	III
Overvoltage category input/input	II	Overvoltage category output/output	II
Pollution severity level	2	Pulse voltage test (1,2/50µs)	6 kV
Insulation test voltage	4.4 kVAC	Clearance input/output	≥ 5.5 mm

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Connection field

Type of connection	Screw connection	Clamping range, min.	0.13 mm ²
Clamping range, max.	6 mm ²	Solid, min. H05(07) V-U	0.5 mm ²
Solid, max. H05(07) V-U	6 mm ²	Flexible, min. H05(07) V-K	0.5 mm ²
Flexible, max. H05(07) V-K	4 mm ²	Flexible with sleeve, max.	2.5 mm ²
Flexible with sleeve, min.	0.5 mm ²	Sleeve with plastic collar, max.	2.5 mm ²
Min. wire cross-section, AWG	AWG 26	Max. wire cross-section, AWG	AWG 12
Tightening torque, min.	0.5 Nm	Tightening torque, max.	0.6 Nm
Stripping length	6 mm		

Supply connection

Type of connection	Screw connection	Clamping range, min.	0.13 mm ²
Clamping range, max.	6 mm ²	Solid, min. H05(07) V-U	0.5 mm ²
Solid, max. H05(07) V-U	6 mm ²	Flexible, min. H05(07) V-K	0.5 mm ²
Flexible, max. H05(07) V-K	4 mm ²	Flexible with sleeve, max.	2.5 mm ²
Flexible with sleeve, min.	0.5 mm ²	Ferrule with plastic collar, max.	2.5 mm ²
Wire cross-section, min. AWG	AWG 26	Wire cross-section, max. AWG	AWG 12
Tightening torque, min.	0.5 Nm	Tightening torque, max.	0.6 Nm
Stripping length	6 mm		

Classifications

ETIM 6.0	EC002780	ETIM 7.0	EC002780
eClass 9.0	27-14-11-52	eClass 9.1	27-24-22-16
eClass 10.0	27-14-11-52	UNSPSC	30-21-18-01

Approvals

Approvals



ROHS

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Engineering Data

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Drawings

