



RSS260-I2-D-LSTM12-8-0,25M

- 8-pole connector M12
- Coding level "High" according to ISO 14119
- Simple mounting without additional angle
- Individual coding with RFID technology
- Frontal and lateral actuation enabled
- RFID-technology for needs-based protection against tampering
- Thermoplastic enclosure

Data

Ordering data

EAN (European Article Number)	4030661500607
eCl@ss number, Version 9.0	27-27-24-03
eCl@ss number, Version 11.0	27-27-24-03

Approval - Standards

Certificates	TÜV cULus EAC FCC IC
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General data

Standards	IEC 60947-5-3
general information	Individual coding, multiple teaching
Coding level according to ISO 14119	High

Active principle	RFID
Housing construction form	Block
Installation conditions (mechanical)	not flush
Enclosure material	Plastic, thermoplastic, self-extinguishing
Active area	Glass-fibre, thermoplastic
Gross weight	161 g
Time to readiness, maximum	2,000 ms
Reaction time, maximum	100 ms
Duration of risk, maximum	200 ms

General data - Features

Short circuit detection	Yes
Short-circuit recognition	Yes
Safety functions	Yes
Number of poles	8

Safety appraisal

Standards	EN ISO 13849-1 IEC 60947-5-3 EN 62061 IEC 61508
Performance level, up to	e
Control category to EN13849	4
PFH-value	6.80×10^{-10} /h
Safety Integrity Level (SIL), suitable for applications in	3
Mission Time	20 Year(s)

Mechanical data

Actuating panels	lateral front side
Active area	lateral front
Hysteresis (Switch distance), maximum	2 mm
Repeat accuracy R R	0.5 mm
Mounting	A 20 mm screw length usually suffices to mount the sensor. When the mounting plates are used, we recommend 25 mm long screws.

Mechanical data - Switching distances according IEC 60947-5-3

Ensured switching distance "ON", front	10 mm
Ensured switching distance "OFF", front	18 mm
Ensured switching distance "ON", side	6 mm
Ensured switch distance "OFF" S_{ar} , lateral	15 mm

Mechanical data - Connection technique

Terminal Connector	Connector M8, 8-pole
Note	The cable section of the interconnecting cable must be observed for both wiring variants! Cable length and cable section alter the voltage drop depending on the output current

Mechanical data - Dimensions

Length of sensor	29.5 mm
Width of sensor	39.2 mm
Height of sensor	18 mm

Ambient conditions

Degree of protection	IP65 to EN 60529 IP67 to EN 60529
Ambient temperature, minimum	-25 °C
Ambient temperature, maximum	+65 °C
Storage and transport temperature, minimum	-25 °C
Storage and transport temperature, maximum	+85 °C
Resistance to vibrations to EN 60068-2-6	10 ... 55 Hz, amplitude 1 mm
Resistance to shock	30 g / 11 ms

Ambient conditions - Insulation value

Rated insulation voltage U_i	32 VDC
Rated impulse withstand voltage U_{imp}	0.8 kV
Overvoltage category	III
Degree of pollution to VDE 0100	3

Electrical data

Voltage type	DC (direct current)
No-load supply current I_0	100 mA
Rated operating voltage	24 VDC -15% / +10%
Rated operating voltage, minimum	20.4 VDC
Rated operating voltage, maximum	26.4 VDC
Operating current	600 mA
Required rated short-circuit current to EN 60947-5-1	100 A
Switching frequency, approx.	1 Hz

Electrical data - Fail-safe digital outputs

Versions	p-type
Voltage drop U_d , maximum	1 V
Current leakage I_r	0.5 mA
Voltage, Utilisation category DC12	24 VDC
Current, Utilisation category DC12	0.25 A
Voltage, Utilisation category DC13	24 VDC
Current, Utilisation category DC13	0.25 A

Electrical data - Diagnostic output

Operating current	50 mA
Versions	p-type
Voltage drop U_d , maximum	2 V
Voltage, Utilisation category DC12	24 VDC
Current, Utilisation category DC12	0.05 A
Voltage, Utilisation category DC13	24 VDC
Current, Utilisation category DC13	0.05 A

Electrical data - Electromagnetic compatibility (EMC)

Interfering radiation	IEC 61000-6-4
EMC rating	IEC 60947-3

Status indication

Note (LED switching conditions display)	(1) LED green: Supply voltage LED yellow: Operating condition LED red: Fault
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Pin assignment

PIN 1	A1 Supply voltage UB
PIN 2	X1 Safety input 1

PIN 3	A2 GND
PIN 4	Y1 Safety output 1
PIN 5	OUT Diagnostic output
PIN 6	X2 Safety input 2
PIN 7	Y2 Safety output 2
PIN 8	without function

Accessory

Recommendation (actuator)	RST16-1
	RST-U-2
	RST260-1

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The details and data referred to have been carefully checked. Images may diverge from original. Further technical data can be found in the manual. Technical amendments and errors possible.

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