



RSS260-I2-D-ST

- Repeated individual coding with RFID technology
- Coding level "High" according to ISO 14119
- 1 x connector plug M8
- Frontal and lateral actuation enabled
- Thermoplastic enclosure
- Simple mounting without additional angle
- RFID-technology for needs-based protection against tampering

Data

Ordering data

EAN (European Article Number)	4030661436432
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
Sensor topology	Sensor for series wiring
Enclosure material	Plastic, thermoplastic, self-extinguishing
Active area	Glass-fibre, thermoplastic
Gross weight	61 g
Time to readiness, maximum	2,000 ms
Reaction time, maximum	100 ms
Duration of risk, maximum	200 ms

General data - Features

Diagnostic output	Yes
Short circuit detection	Yes
Short-circuit recognition	Yes
Safety functions	Yes
Cascadable	Yes
Integral System Diagnostics, status	Yes
Number of LEDs	3
Number of semi-conductor outputs with signaling function	1
Number of fail-safe digital outputs	2

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
Note (Repeat accuracy R_R)	Axial offset: The long side allows for a maximum height misalignment (x) of sensor and actuator of 8 mm (e.g. mounting tolerance or due to guard door sagging). The axial misalignment (y) is max. ± 18 mm (see figure: Operating principle). Minimum clearance between two sensor systems 100 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

Switch distance S_n	front 12 mm lateral 9 mm
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" 15 mm

S_{ar} , lateral

Mechanical data - Connection technique

Terminal Connector Connector M8

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)	LED yellow: Operating condition LED green: Supply voltage LED red: Fault
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Pin assignment

PIN 1	A1 U_e : White
PIN 2	X1 safety input 1: Brown
PIN 3	A2 GND: Green
PIN 4	Y1 safety output 1: Yellow
PIN 5	OUT Diagnostic output OUT Grey
PIN 6	X2 safety input 2: Pink
PIN 7	Y2 safety output 2: Blue

Accessory

Recommendation (actuator)	RST16-1
	RST-U-2
	RST260-1
Recommended safety switchgear	PROTECT PSC1
	SRB-E-301ST
	SRB-E-201LC

Schmersal, Inc., 15 Skyline Drive, Hawthorne, NY 10532
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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