



RSS16-D-R-ST8H

- Universal coding with RFID technology
- 1 x connector plug M12, 8-pole
- Series-wiring unlimited
- with latching
- Thermoplastic enclosure
- RFID-technology for needs-based protection against tampering
- 3 different directions of actuation
- Door stop with magnetic latching
- Connection terminal or plug connection
- Suitable for series-wiring

Data

Ordering data

EAN (European Article Number)	4030661456867
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

General data

Standards	IEC 60947-5-3
general information	Universal coding

Coding level according to ISO 14119	Low
Active principle	RFID
Housing construction form	Block
Installation conditions (mechanical)	not flush
Sensor topology	Sensor for series wiring
Enclosure material	Plastic, glass-fibre reinforced thermoplastic, self-extinguishing
Active area	Glass-fibre, reinforced thermoplastic
Gross weight	250 g
Time to readiness, maximum	2,000 ms
Reaction time, maximum	100 ms
Duration of risk, maximum	200 ms

General data - Features

Latching	Yes
Diagnostic output	Yes
Short circuit detection	Yes
Short-circuit recognition	Yes
Series-wiring	Yes
Safety functions	Yes
Cascadable	Yes
Integral System Diagnostics, status	Yes
Number of LEDs	2
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
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Performance level, up to	e
Control category to EN13849	4
PFH-value	6.30×10^{-11} /h
Safety Integrity Level (SIL), suitable for applications in	3
Mission Time	20 Year(s)

Mechanical data

Actuating panels	front side rear from head
Active area	lateral front side cover-side
Hysteresis (Switch distance), maximum	2 mm
Repeat accuracy R R	0.5 mm
Mounting	2 x M5, Cylinder head screw
Tightening torque of nuts, maximum	2 Nm

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

Switch distance	15 mm
Ensured switch distance "ON" S_{ao}	5 mm
Ensured switch distance "OFF" S_{ar}	30 mm

Mechanical data - Connection technique

Terminal Connector	Connector M12, 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	91 mm
Width of sensor	52 mm
Height of sensor	30 mm

Ambient conditions

Degree of protection	IP65 to EN 60529 IP66 to EN 60529 IP67 to EN 60529
Ambient temperature, minimum	-25 °C
Ambient temperature, maximum	+70 °C
Storage and transport temperature, minimum	-25 °C
Storage and transport temperature, maximum	+85 °C
Resistance to shock	30 g / 11 ms
Protection rating	0

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, minimum	20.4 VDC
Rated operating voltage, maximum	26.4 VDC

Operating current	2,100 mA
Required rated short-circuit current to EN 60947-5-1	100 A
Switching frequency, approx.	1 Hz

Electrical data - Fail-safe digital outputs

Rated operating current (safety outputs)	1,000 mA
Output current, (fail-safe output), maximum	1 A
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	1 A
Voltage, Utilisation category DC13	24 VDC
Current, Utilisation category DC13	1 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)

Multi-coloured LED: Green, Red
LED yellow: Operating condition
LED green: Supply voltage
LED red: Fault

Scope of delivery

Included in delivery

Actuators must be ordered separately.

Accessory

Recommendation (actuator)

RST16-1-R

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.

Generated on: 11/9/2021, 10:35 AM