DATASHEET

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

- Simple mounting without additional angle
- Universal coding with RFID technology
- Frontal and lateral actuation enabled
- RFID-technology for needs-based protection against tampering
- 8- pole cable connector M12
- Thermoplastic enclosure

Data

Ordering data

Product type description	RSS260-D-LSTM12-8-0,25M
Article number (order number)	103013285
EAN (European Article Number)	4030661500614
eCl@ss number, version 11.0	27-27-24-03
eCl@ss number, version 9.0	27-27-24-03
ETIM number, version 7.0	EC000030
ETIM number, version 6.0	EC000030

Approvals - Standards

Certificates	TÜV cULus EAC FCC IC UKCA

General data

Standards	EN IEC 60947-5-3
Coding	Universal coding
Coding level according to EN ISO 14119	Low
Working principle	RFID
Housing construction form	Block
Installation conditions (mechanical)	not flush
Enclosure material	Plastic, thermoplastic, self-extinguishing
Active area	Glass-fibre, thermoplastic
Gross weight	77 g
Time to readiness, maximum	2,000 ms
Duration of risk, maximum	200 ms

General data - Features

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

Safety classification

Standards	EN ISO 13849-1 EN IEC 60947-5-3 EN IEC 62061 EN IEC 61508
Performance Level, up to	e
Category	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 (Switching distance), maximum	2 mm
Repeat accuracy 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 EN IEC 60947-5-3

Assured switching distance "ON", front	10 mm
Assured switching distance "OFF", front	18 mm
Assured switching distance "ON", side	6 mm
Assured switching distance "OFF", side	15 mm

Mechanical data - Connection technique

Termination	Connector M12, 8-pole, A-coded
Note (length of the sensor chain)	Cable length and cross-section change the voltage drop dependiing 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 IP67
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	10 ... 55 Hz, amplitude 1 mm
Restistance to shock	30 g / 11 ms

Ambient conditions - Insulation values

Rated impulse withstand voltage U_{imp}	0.8 kV
Overvoltage category	III
Degree of pollution	3

Electrical data

Voltage type	DC (direct current)
No-load supply current I_0, maximum	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	100 A
Switching frequency, approx.	1 Hz

Electrical data - Safety digital outputs

Design of control elements	p-type
Voltage drop U_d, maximum	1 V
Leakage current I_r, maximum	0.5 mA
Voltage, Utilisation category DC-12	24 VDC
Current, Utilisation category DC-12	0.25 A
Voltage, Utilisation category DC-13	24 VDC
Current, Utilisation category DC-13	0.25 A

Electrical data - Diagnostic outputs

Operating current	150 mA
Design of control elements	p-type
Voltage drop U_d, maximum	2 V
Current, Utilisation category DC-12	0.05 A
Current, Utilisation category DC-13	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

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

Ordering code

Product type description:
RSS260-(1)-(2)-(3)-(4)-(5)

(1)

without	Standard coding
I1	Individual coding
I2	Individual coding, multiple teaching

(2)

D	With diagnostic output
SD	With serial diagnostic function

(3)

without	Standard version without feedback circuit monitoring EDM (External Device Monitoring)
F0	EDM with automatic reset
F1	EDM with manual reset

(4)

without	without emergency-stop
Q	Acknowledge input error with EMERGENCY STOP

(5)

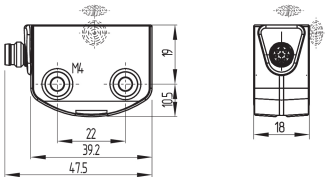
without	Connecting cable (lenght in m)
ST	Connector plug M8, 8-pole
LSTM12-8-0,25M	Cable 0.25 m long with connector M12, 8-pole
LSTM8-8-1M	Cable 0.1 m long with connector M8, 8-pole
LSTM12-5-0.25M	Cable 0.25 m long with connector M12, 5-pole

Pictures

Product picture (catalogue individual photo)

ID: krss2f13
| 42.7 kB | .png | 74.083 x 141.817 mm - 210 x 402 px - 72 dpi
| 638.8 kB | .jpg | 352.778 x 676.275 mm - 1000 x 1917 px - 72 dpi

Dimensional drawing basic component



ID: krss2g02
| 147.2 kB | .ai | 297 x 210.002 mm - 841 x 595 px - 72 dpi
| 4.8 kB | .png | 74.083 x 39.864 mm - 210 x 113 px - 72 dpi
| 121.3 kB | .jpg | 352.778 x 189.089 mm - 1000 x 536 px - 72 dpi