

RSS260-SD-ST



- 1 x connector plug M8
- Thermoplastic enclosure
- Universal coding with RFID technology
- Frontal and lateral actuation enabled
- Max. 31 sensors can be wired in series.
- Simple mounting without additional angle
- RFID-technology for needs-based protection against tampering

Data

Ordering data

	RSS260-SD-ST
	103003605
EAN (European Article Number)	4030661436449
eCl@ss number, Version 9.0	27-27-24-03

Approval - Standards

TÜV
cULus
EAC
FCC
IC

General data

	RSS260
	IEC 60947-5-3
general information	Universal coding
Coding level according to ISO 14119	Low
	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	60.4 g
Time to readiness, maximum	2,000 ms
Reaction time, maximum	100 ms
Duration of risk, maximum	200 ms

General data - Features

Serial diagnostics	Yes
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
Number of Series-wiring of sensors	31

Safety appraisal

	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), applicable for	3
Mission Time	20 Year(s)

Mechanical data

Actuating panels	lateral front side
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Active area	lateral front
Mounting	A 20 mm screw length usually suffices to mount the sensor. When the mounting plates are used, we recommend 25 mm long screws.
Ensured switching distance "ON", front	10 mm
Ensured switching distance "ON", side	6 mm
Ensured switching distance "OFF", front	18 mm
Ensured switch distance "OFF" S_{ar} , lateral	15 mm
Switch distance S_n	front 12 mm lateral 9 mm
Hysteresis (Switch distance), maximum	2 mm
Repeat accuracy R R	0.5 mm
Note (Repeat accuracy 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

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

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

Ambient conditions

Protection class	IP 65 to IEC/EN 60529 IP 67 to IEC/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

30 g / 11 ms

Ambient conditions - Insulation value

Rated impulse withstand voltage	0.8 kV
	III
	3

Electrical data

Voltage type	DC (direct current)
No-load current	100 mA
	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	0.5 mA
Voltage, Utilisation category DC12	24 VDC
Current, Utilisation category DC12	0.3 A
Voltage, Utilisation category DC13	24 VDC
Current, Utilisation category DC13	0.3 A

Electrical data - Diagnostic output

Operating current (diagnostic output)	150 mA
Versions	p-type
Voltage drop U_d , maximum	2 V

Electrical data - Electromagnetic compatibility (EMC)

IEC 61000-6-4

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 U _e : White
PIN 2	X1 safety input 1: Brown
PIN 3	A2 GND: Green
PIN 4	Y1 safety output 1: Yellow
PIN 5	serial diagnostic output OUT Grey
PIN 6	X2 safety input 2: Pink
PIN 7	Y2 safety output 2: Blue
PIN 8	IN serial diagnostic input Pink

Accessory

RST16-1
RST-U-2
RST260-1
PROTECT PSC1
SRB-E-301ST
SRB-E-201LC

Ordering code

Product type description:

RSS260-(1)-(2)-ST

(1)

without Standard coding

I1 Individual coding

I2 Individual coding, multiple teaching

(2)

D With diagnostic output

SD With serial diagnostic function

Pictures

Photo/Product/Catalogue



ID: krss2f01

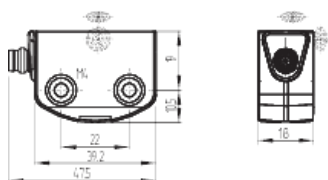
| 40,1 kB | .png | 74.083 x 58.914 mm - 210 x 167

Pixel - 72 dpi

| 509,4 kB | .jpg | 352.778 x 281.164 mm - 1000 x 797

Pixel - 72 dpi

Dimension/Product/Basic



ID: krss2g02

| 121,3 kB | .jpg | 352.778 x 189.089 mm - 1000 x 536

Pixel - 72 dpi

| 4,8 kB | .png | 74.083 x 39.864 mm - 210 x 113 Pixel
- 72 dpi

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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.

Generated on 362021-01-31T06:00:36+01:000601Europe/BerlinSun, 31 Jan 2021 06:00:36

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