

RSS260-D-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

Product type description	RSS260-D-ST
Article number (order number)	103003602
EAN (European Article Number)	4030661436418
eCl@ss number, Version 9.0	27-27-24-03

Certifications

Certificates	TÜV
	cULus
	EAC
	FCC
	IC

General data

Product name	RSS260
Standards	IEC 60947-5-3
general information	Universal coding
	Low
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	60 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	ISO 13849-1 IEC 60947-5-3 EN 62061 IEC 61508
Performance Level	e
Control category to EN13849	4
PFH-value	$6.80 \times 10^{-10} /h$
Safety Integrity Level (SIL)	3
Mission Time	20 Year(s)

Mechanical data

Actuating panels	lateral front side
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
	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_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 100 mm clearance in case of approach from side.

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
Resistance to shock	30 g / 11 ms

Ambient conditions - Insulation value

Rated impulse withstand voltage	0.8 kV
	III

Degree of pollution to VDE 3
0100

Electrical data

Voltage type DC (direct current)
No-load current 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

P-type
1 V
Current leakage 0.5 mA

Electrical data - Diagnostic output

P-type
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 OUT Diagnostic output OUT Grey
PIN 6 X2 safety input 2: Pink
PIN 7 Y2 safety output 2: Blue
PIN 8 IN without function: Red

Accessory

Recommendation (actuator)	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

Product picture (catalogue individual photo)



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

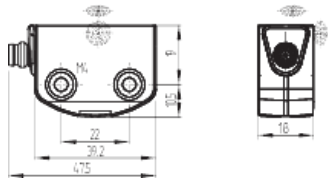
Pixel - 72 dpi

| 63,3 kB | .jpg | 27.093 x 21.59 mm - 320 x 255 Pixel -

300 dpi

Dimensional drawing basic component

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

| 26,6 kB | .jpg | 112.889 x 60.325 mm - 320 x 171
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.

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