



RSS16-D-SK-DU

- Universal coding with RFID technology
- Screw connection
- Series-wiring unlimited
- without 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

Product type description	RSS16-D-SK-DU
Article number (order number)	103044779
EAN (European Article Number)	4030661563671
eCl@ss number, version 9.0	27-27-24-03
eCl@ss number, version 11.0	27-27-24-03
ETIM number, version 7.0	EC000030
ETIM number, version 6.0	EC000030

Approvals - Standards

Certificates	TÜV
	cULus
	EAC
	FCC
	IC

General data

Standards	IEC 60947-5-3
Coding	Universal coding
Coding level according to ISO 14119	Low
Working 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

Diagnostic output	Yes
Short circuit detection	Yes
Cross-circuit detection	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 classification

Standards	EN ISO 13849-1 IEC 60947-5-3 EN 62061 IEC 61508
Performance Level, up to	e
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 (Switching 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 EN IEC 60947-5-3

Switching distance	15 mm
Assured switching distance "ON" S_{ao}	12 mm
Assured switching distance "OFF" S_{ar}	30 mm

Mechanical data - Connection technique

Type of connection	Screw terminals M20 x 1.5
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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
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Mechanical data - Dimensions

Length of sensor	91 mm
Width of sensor	52 mm
Height of sensor	30 mm

Ambient conditions

Degree of protection	IP65 IP67
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 class	0

Ambient conditions - Insulation values

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, maximum 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 - Safety digital outputs

Rated operating current (safety outputs)	1,000 mA
Output current, (fail-safe output), maximum	1 A
Design of switching elements	p-type
Voltage drop U_d , maximum	1 V
Leakage current I_r	0.5 mA
Voltage, Utilisation category DC-12	24 VDC
Current, Utilisation category DC-12	1 A
Voltage, Utilisation category DC-13	24 VDC
Current, Utilisation category DC-13	1 A

Electrical data - Diagnostic outputs

Operating current	50 mA
Design of switching elements	p-type
Voltage drop U_d , maximum	2 V
Voltage, Utilisation category DC-12	24 VDC
Current, Utilisation category DC-12	0.05 A
Voltage, Utilisation category DC-13	24 VDC
Current, Utilisation category DC-13	0.05 A

Electrical data - Electromagnetic compatibility (EMC)

Interfering radiation	IEC 61000-6-4
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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

Scope of delivery

Actuators must be ordered separately.

Accessory

Recommendation (actuator)

RST16-1
RST-U-2

Recommended safety switchgear

PROTECT PSC1
SRB-E-301ST
SRB-E-201LC

Ordering code

Product type description:
RSS16 (1)-(2)-(3)-(4)

(1)	
without	Standard coding
I1	Individual coding
I2	Individual coding, for multiple applications
(2)	
D	With diagnostic output
SD	With serial diagnostic function
(3)	
without	without latching
R	With latching, latching force 40 ... 60 N
(4)	
ST8H	With connector plug M12 in the middle
CC	with cage clamps
SK	Screw connection

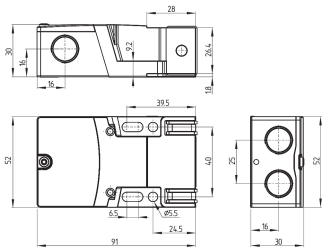
Pictures

Product picture (catalogue individual photo)



ID: krss1f08
| 1.3 MB | .jpg | 352.778 x 745.772 mm - 1000 x 2114 px - 72
dpi
| 97.9 kB | .png | 74.083 x 156.633 mm - 210 x 444 px - 72 dpi

Dimensional drawing basic component



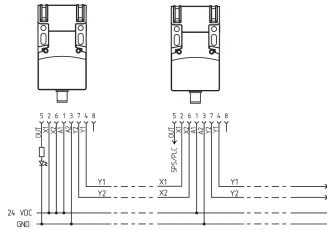
ID: krss1g01

| 436.1 kB | .ai | 198.103 x 189.251 mm - 561 x 536 px - 72 dpi

| 4.7 kB | .png | 74.083 x 56.444 mm - 210 x 160 px - 72 dpi

| 141.1 kB | .jpg | 352.778 x 268.817 mm - 1000 x 762 px - 72 dpi

Wiring example

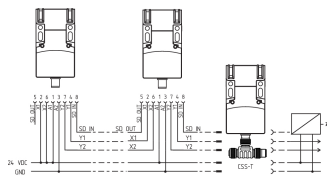


ID: krss1i02

| 101.2 kB | .jpg | 352.778 x 247.297 mm - 1000 x 701 px - 72 dpi

dpi

Wiring example



ID: krss1i03

| 112.1 kB | .jpg | 352.778 x 183.444 mm - 1000 x 520 px - 72 dpi

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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