



RSS16-D-R-SK



- Universal coding with RFID technology
- Screw connection
- 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
- Repeated individual coding with RFID technology

Data

Ordering data

Product type description	RSS16-D-R-SK
Article number (order number)	103004341
EAN (European Article Number)	4030661456911
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
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General data

Standards	EN IEC 60947-5-3
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	208 g
Time to readiness, maximum	2,000 ms
Reaction time, maximum	100 ms
Duration of risk, maximum	200 ms

General data - Features

Latching magnet	Yes
Latching	Yes
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 EN IEC 60947-5-3 EN IEC 62061 EN IEC 61508
Performance Level, up to	e
Category	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	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

Assured switching distance "ON" S_{ao}	5 mm
Assured switching distance "OFF" S_{ar}	30 mm
Switch distance, typical	15 mm

Mechanical data - Connection technique

Termination	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

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
Restistance 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	3

Electrical data

Voltage type	DC (direct current)
No-load supply current $I_{0, maximum}$	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	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 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	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 control 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- 0.05 A
13

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
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Scope of delivery

Scope of delivery	Actuators must be ordered separately.
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Accessory

Recommendation (actuator)	RST16-1-R
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
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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

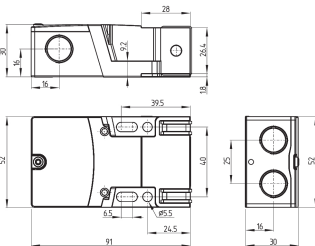
Pictures

Product picture (catalogue individual photo)



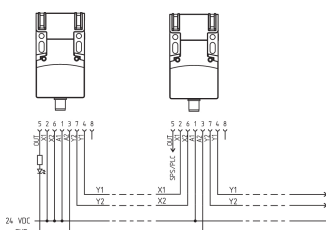
ID: krss1f01
 | 18.2 MB | .tif | 90.932 x 185.589 mm - 1074 x 2192 px - 300 dpi
 | 1.4 MB | .jpg | 352.778 x 719.667 mm - 1000 x 2040 px - 72 dpi
 | 109.6 kB | .png | 74.083 x 150.989 mm - 210 x 428 px - 72 dpi

Dimensional drawing basic component



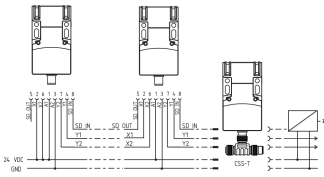
ID: krss1g01
 | 436.1 kB | .ai | 198.103 x 189.251 mm - 561 x 536 px - 72 dpi
 | 4.7 kB | .png | 74.083 x 56.444 mm - 210 x 160 px - 72 dpi
 | 141.1 kB | .jpg | 352.778 x 268.817 mm - 1000 x 762 px - 72 dpi

Wiring example



ID: krss1i02
 | 101.2 kB | .jpg | 352.778 x 247.297 mm - 1000 x 701 px - 72 dpi

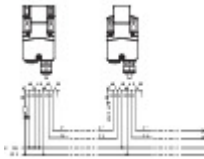
Wiring example



ID: krss1l03

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

Wiring example



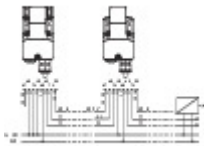
ID: krss1lx2

| 3.0 kB | .jpg | 35.278 x 35.278 mm - 100 x 100 px - 72 dpi

| 3.9 kB | .png | 74.083 x 56.092 mm - 210 x 159 px - 72 dpi

| 117.7 kB | .jpg | 352.778 x 267.053 mm - 1000 x 757 px - 72 dpi

Wiring example



ID: krss1l05

| 3.3 kB | .jpg | 35.278 x 35.278 mm - 100 x 100 px - 72 dpi

| 3.9 kB | .png | 74.083 x 50.8 mm - 210 x 144 px - 72 dpi

| 120.9 kB | .jpg | 352.778 x 242.358 mm - 1000 x 687 px - 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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