



RSS16-D-R-CC



- Universal coding with RFID technology
- Spring pulley 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-CC
Article number (order number)	103004365
EAN (European Article Number)	4030661456898
eCl@ss number, version 12.0	27-27-46-01
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	EC001829
ETIM number, version 6.0	EC001829

Approvals - Standards

Certificates

TÜV
cULus
FCC
IC
UKCA
ANATEL

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
Sensor topology	Sensor for series wiring
Housing material	Plastic, glass-fibre reinforced thermoplastic, self-extinguishing
Active area	Glass-fibre, reinforced thermoplastic
Reaction time, maximum	100 ms
Duration of risk, maximum	200 ms
Gross weight	208 g

General data - Features

Latching magnet	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 61508
Performance Level, up to	e
Category	4
PFH value	6.30×10^{-11} /h
PFD value	1.50×10^{-5}
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
Mounting	2 x M5, Cylinder head screw
Tightening torque of the fixing screws	2 Nm

Mechanical data - Switching distances according EN IEC 60947-5-3

Switch distance, typical	15 mm
Assured switching distance "ON" S_{ao}	5 mm
Assured switching distance "OFF" S_{ar}	30 mm
Hysteresis (Switching distance), maximum	2 mm
Repeat accuracy R	0.5 mm

Mechanical data - Connection technique

Note (length of the sensor chain)	Cable length and cross-section change the voltage drop depending on the output current
Note (series-wiring)	Unlimited number of devices, observe external line fusing, max. 31 devices in case of serial diagnostic SD
Cable entry	4 x M16 x 1,5

Termination

Spring pulley connection

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	-28 ... +70 °C
Storage and transport temperature	-28 ... +85 °C
Relative humidity, maximum	93 %
Note (Relative humidity)	non-condensing non-icing
Resistance to shock	30 g / 11 ms
Permissible installation altitude above sea level, maximum	2,000 m

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

Operating voltage	24 VDC -15 % / +10 %
Operating current, minimum	0.5 mA
No-load supply current I_0 , typical	100 mA
Rated operating voltage	24 VDC
Operating current	2,100 mA

Required rated short-circuit current	100 A
Time to readiness, maximum	2,000 ms
Switching frequency, maximum	1 Hz
Utilisation category DC-12	24 VDC / 0.05 A

Electrical data - Safety digital inputs

Current consumption of the safety inputs	5 mA
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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-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) Multi-coloured LED: Green, Red
LED yellow: Operating condition
LED green: Supply voltage
LED red: Fault

Scope of delivery

Scope of delivery Actuator must be ordered separately.

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
SD	With serial diagnostic function

(3)

without	without latching
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R With latching, latching force 40 ... 60 N

(4)

ST8H With connector plug M12 in the middle

CC with cage clamps

SK Screw connection

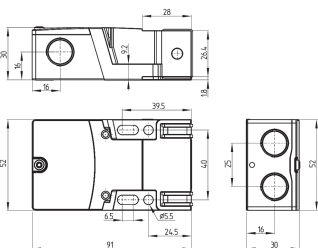
Pictures

Product picture (catalogue individual photo)



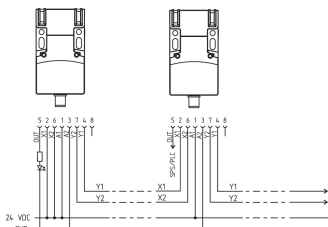
ID: krss1f01
| 18.2 MB | .tif | 90.932 x 185.589 mm - 1074 x 2192 px - 300 dpi
| 1.4 MB | .jpg | 352.778 x 719.667 mm - 1000 x 2040 px - 72 dpi
| 109.6 kB | .png | 74.083 x 150.989 mm - 210 x 428 px - 72 dpi
| 50.0 kB | .jpg | 60.678 x 123.472 mm - 172 x 350 px - 72 dpi

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

Schmersal India Pvt. Ltd., Plot No - G-7/1, Ranjangaon MIDC, Tal. - Shirur, Dist.- Pune 412 220

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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