

RSS16-SD-ST8H



- without latching
- Thermoplastic enclosure
- Suitable for series-wiring
- 1 x connector plug M12, 8-pole
- Door stop with magnetic latching
- Series-wiring up to 31 components
- 3 different directions of actuation
- Universal coding with RFID technology
- Connection terminal or plug connection
- RFID-technology for needs-based protection against tampering

Data

Ordering data

	RSS16-SD-ST8H
	103006685
EAN (European Article Number)	4030661456959
eCl@ss number, Version 9.0	27-27-24-03

Approval - Standards

TÜV
cULus
EAC
FCC
IC

General data

	RSS16
	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, 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

Serial diagnostics	Yes
Diagnostic output	Yes
Short circuit detection	Yes
Short-circuit recognition	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
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	6.30×10^{-11} /h
Safety Integrity Level (SIL), applicable for	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
Switch distance	15 mm
Ensured switch distance "ON" S	12 mm
ao	
Ensured switch distance "OFF" S	30 mm
ar	
Hysteresis (Switch distance), maximum	2 mm
Repeat accuracy R R	0.5 mm
Tightening torque of nuts, maximum	2 Nm

Mechanical data - Connection technique

Terminal Connector	Connector M12, 8-pole
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	30 mm
Length of sensor	91 mm
Width of sensor	52 mm

Ambient conditions

Protection class	IP 65 to IEC/EN 60529 IP 66 to IEC/EN 60529 IP 67 to IEC/EN 60529
Ambient temperature, minimum	-25 °C
Ambient temperature, maximum	+70 °C
Storage and transport temperature, minimum	-25 °C
Storage and transport temperature, maximum	+85 °C
	30 g / 11 ms
Protection rating	0

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
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 - Fail-safe digital outputs

Rated operating current (safety outputs)	1,000 mA
Output current, (fail-safe output), maximum	1 A
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	1 A
Voltage, Utilisation category DC13	24 VDC
Current, Utilisation category DC13	1 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)	Multi-coloured LED: Green, Red LED yellow: Operating condition LED green: Supply voltage LED red: Fault
---	--

Scope of delivery

Included in delivery Actuators must be ordered separately.

Accessory

RST16-1
RST-U-2
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

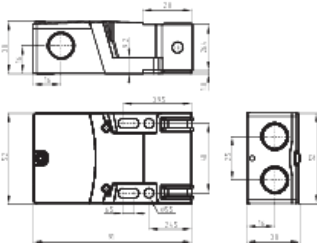
Photo/Product/Catalogue



ID: krss1f02

| 1,3 MB | .jpg | 352.778 x 745.772 mm - 1000 x 2114
Pixel - 72 dpi
| 100,6 kB | .png | 74.083 x 156.633 mm - 210 x 444
Pixel - 72 dpi

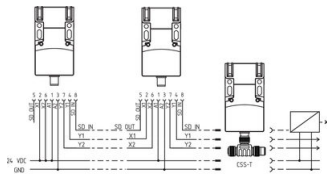
Dimension/Product/Basic



ID: krss1g01

| 4,7 kB | .png | 74.083 x 56.444 mm - 210 x 160 Pixel
- 72 dpi
| 141,1 kB | .jpg | 352.778 x 268.817 mm - 1000 x 762
Pixel - 72 dpi

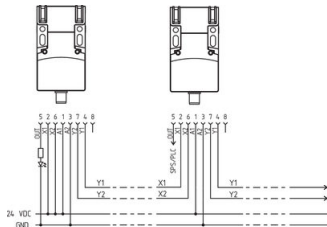
Graphic/Product/Wiring



ID: krss1i03

| 112,1 kB | .jpg | 352.778 x 183.444 mm - 1000 x 520
Pixel - 72 dpi

Graphic/Product/Wiring



ID: krss1i02

| 101,2 kB | .jpg | 352.778 x 247.297 mm - 1000 x 701
Pixel - 72 dpi

K.A. Schmersal GmbH & Co. KG, Möddinghofe 3, D-42279 Wuppertal

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 192021-01-31T05:56:19+01:000501Europe/BerlinSun, 31 Jan 2021 05:56:19

+010019amSunday.31am31Europe/BerlinCET5601Europe/BerlinJanuary2021Sun, 31 Jan 2021 05:56:19

+010001am31