



## RSS260-D-LSTM12-5-0,25M

### Data

#### Ordering data

RSS260-D-LSTM12-5-0,25M

103025102

EAN (European Article Number) 4030661512242

eCl@ss number, Version 9.0 27-27-24-03

#### Approval - Standards

TÜV

cULus

EAC

FCC

IC

#### General data

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

Enclosure material Plastic, thermoplastic, self-extinguishing

Active area Glass-fibre, thermoplastic

Gross weight 121 g

Time to readiness, maximum 2,000 ms

Reaction time, maximum 100 ms

Duration of risk, maximum 200 ms

## General data - Features

|                           |     |
|---------------------------|-----|
| Short circuit detection   | Yes |
| Short-circuit recognition | Yes |
| Safety functions          | Yes |

## Safety appraisal

|                                                 |                                                       |
|-------------------------------------------------|-------------------------------------------------------|
|                                                 | ISO 13849-1<br>IEC 60947-5-3<br>EN 62061<br>IEC 61508 |
| Performance level, up to                        | e                                                     |
| Control category to EN13849                     | 4                                                     |
| PFH-value                                       | $6.80 \times 10^{-10} /h$                             |
| Safety Integrity Level (SIL),<br>applicable for | 3                                                     |
| Mission Time                                    | 20 Year(s)                                            |

## Mechanical data

|                                                            |                                                                                                                               |
|------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Actuating panels                                           | lateral<br>front side                                                                                                         |
| Active area                                                | lateral<br>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<br>"ON", front                  | 10 mm                                                                                                                         |
| Ensured switching distance<br>"ON", side                   | 6 mm                                                                                                                          |
| Ensured switching distance<br>"OFF", front                 | 18 mm                                                                                                                         |
| Ensured switch distance "OFF"<br>S <sub>ar</sub> , lateral | 15 mm                                                                                                                         |
| Hysteresis (Switch distance),<br>maximum                   | 2 mm                                                                                                                          |
| Repeat accuracy R R                                        | 0.5 mm                                                                                                                        |

## Mechanical data - Connection technique

|                    |                                                                                                                                                                                 |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Terminal Connector | Connector M8, 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 | 18 mm |
|------------------|-------|

|                  |         |
|------------------|---------|
| Length of sensor | 29.5 mm |
| Width of sensor  | 39.2 mm |

#### Ambient conditions

|                                               |                                                  |
|-----------------------------------------------|--------------------------------------------------|
| Protection class                              | IP 65 to IEC/EN 60529<br>IP 67 to IEC/EN 60529   |
| Ambient temperature,<br>minimum               | -25 °C                                           |
| Ambient temperature,<br>maximum               | +65 °C                                           |
| Storage and transport<br>temperature, minimum | -25 °C                                           |
| Storage and transport<br>temperature, maximum | +85 °C                                           |
| Resistance to vibrations to EN<br>60068-2-6   | 10 ... 55 Hz, amplitude 1 mm<br><br>30 g / 11 ms |

#### Ambient conditions - Insulation value

|                                    |                        |
|------------------------------------|------------------------|
| Rated impulse withstand<br>voltage | 0.8 kV<br><br>III<br>3 |
|------------------------------------|------------------------|

#### Electrical data

|                                                         |                              |
|---------------------------------------------------------|------------------------------|
| Voltage type                                            | DC (direct current)          |
| No-load current                                         | 100 mA<br>24 VDC -15% / +10% |
| Rated operating voltage,<br>minimum                     | 20.4 VDC                     |
| Rated operating voltage,<br>maximum                     | 26.4 VDC                     |
| Operating current                                       | 600 mA                       |
| Required rated short-circuit<br>current to EN 60947-5-1 | 100 A                        |
| Switching frequency, approx.                            | 1 Hz                         |

#### Electrical data - Fail-safe digital outputs

|                                       |        |
|---------------------------------------|--------|
| Versions                              | p-type |
| Voltage drop $U_d$ , maximum          | 1 V    |
| Current leakage                       | 0.5 mA |
| Voltage, Utilisation category<br>DC12 | 24 VDC |
| Current, Utilisation category<br>DC12 | 0.3 A  |

|                                    |        |
|------------------------------------|--------|
| Voltage, Utilisation category DC13 | 24 VDC |
| Current, Utilisation category DC13 | 0.3 A  |

#### Electrical data - Diagnostic output

|                                       |        |
|---------------------------------------|--------|
| Operating current (diagnostic output) | 150 mA |
| Versions                              | p-type |
| Voltage drop $U_d$ , maximum          | 2 V    |
| Voltage, Utilisation category DC12    | 24 VDC |
| Current, Utilisation category DC12    | 0.1 A  |
| Voltage, Utilisation category DC13    | 24 VDC |
| Current, Utilisation category DC13    | 0.1 A  |

#### Electrical data - Electromagnetic compatibility (EMC)

IEC 61000-6-4  
IEC 60947-3

#### Status indication

|                                         |                                                                                |
|-----------------------------------------|--------------------------------------------------------------------------------|
| Note (LED switching conditions display) | LED yellow: Operating condition<br>LED green: Supply voltage<br>LED red: Fault |
|-----------------------------------------|--------------------------------------------------------------------------------|

#### Accessory

RST16-1  
RST-U-2  
RST260-1

#### 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

### Photo/Product/Catalogue

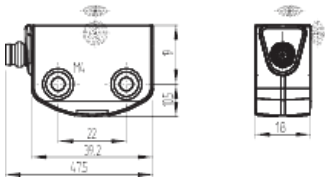


ID: krss2f13

| 638,8 kB | .jpg | 352.778 x 676.275 mm - 1000 x 1917 Pixel - 72 dpi

| 42,7 kB | .png | 74.083 x 141.817 mm - 210 x 402 Pixel - 72 dpi

### Dimension/Product/Basic



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

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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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