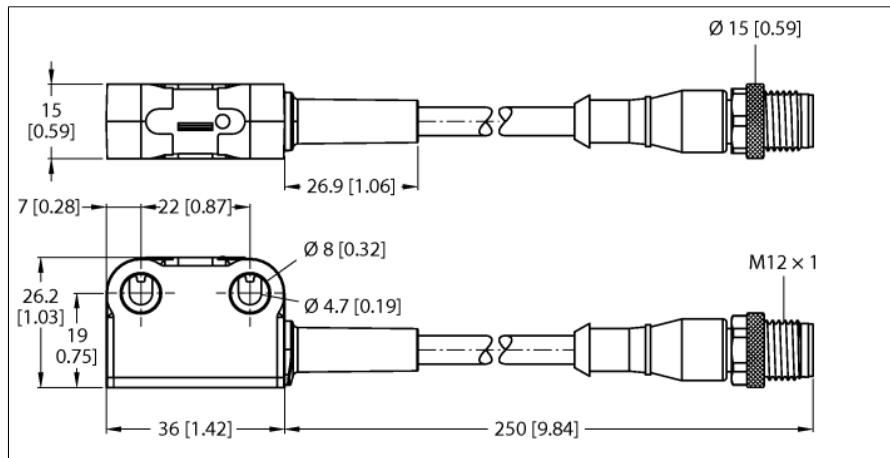


# Safety Technology

## RFID Safety Switch

### SI-RFST-UP8



- Contactless safety sensor for cascading
- Coding type: unique
- Reset: automatic
- Diagnostics: PNP output (not safety-relevant)
- Operating status indicator (green/red)
- Switching output indicator (yellow)
- IP69K
- SIL 3 (IEC 61508)
- PL e (ISO 13849-1)
- Required for operating SI-RF-A actuators

<b>Type designation</b>	SI-RFST-UP8
Ident no.	3806390
<b>Function</b>	RFID safety switch
Repeatability	1.3 mm
Hysteresis	≤ 2 mm
Range	10...25 mm
With muting function	no
Ambient temperature	-25...+70 °C
Storage temperature	-25...+70 °C
Relative humidity	0...93%
<b>Operating voltage</b>	19.2...30 VDC
No-load current I <sub>0</sub>	≤ 50 mA
Max. current safe output	100 mA
Short-circuit protection	yes
Reverse polarity protection	yes
Output function	2 × OSSD, NO contacts, PNP
Number of safe semiconductor outputs	2
Rated insulation voltage	75 V
Impulse withstand voltage	500 kV
Protection class	III gemäß EN IEC 61558
Switching frequency	≤ 1 Hz
Readiness delay	≤ 100 ms
Readiness delay	≤ 2 s
Response time typical	< 100 ms
With restart interlock	no
<b>Design</b>	Rectangular, SI-RF
Dimensions	26 x 15 x 36 mm
Housing material	Plastic, PA6
Cascadable	yes
Electrical connection	Cable with connector, M12 × 1, PUR
Cable length	0.25 m
Number of cores	8
Protection class	IP69K
Vibration resistance	acc. to EN IEC 60947-5-2
Shock test	acc. to EN IEC 60947-5-2
<b>PL acc. to DIN EN 13849-1:2008</b>	e
Category acc. to DIN EN 13849-1:2008	4
SIL according IEC 61508	3
Useful Lifetime	20 years
Coding level/tamper protection	Unique
<b>Power-on indication</b>	LED, Green/Red
Switching state	LED, Yellow
Error indication	LED, red

#### Functional principle

The safety sensors from the SI-RF product series use RFID technology to monitor doors, flaps and other moving mechanical guards that separate people and devices from hazardous situations. This contactless system meets the highest safety standards, is tamper-proof and offers diagnostic functions which make it easier to solve problems and minimize plant downtimes.

The uniquely coded RFID safety sensors offer the highest level of tamper protection. The RFID sensor and the SI-RF actuator in this pair will only work with each other. The RFID code is completely unique to this SI-RF actuator and no additional SI-RF actuators can be taught into the sensor.

Cascaded RFID safety sensors are able to monitor several guards in a cascade network.

# Safety Technology

## RFID Safety Switch

### SI-RFST-UP8

#### Accessories

Type code	Ident no.	Description	Dimension drawing
SI-RFA-TK	3806410	Two-way junction box for RFID safety switches for connecting reset switches	
SI-RFA-TS	3806409	Two-way junction box for RFID safety switches for connection in a cascade network	
SI-RFA-P	3806411	Terminating resistor for RFID safety switch	

#### Function accessories

Type code	Ident no.	Description	Dimension drawing
SI-RF-A	3806408	Actuator for RFID safety switch	