



## RSS260-ST-AS

- Universal coding with RFID technology
- Safety sensor, electronic
- Thermoplastic enclosure
- Small body, high switching distance
- Protection class IP65 / IP67

## Data

### Ordering data

EAN (European Article Number)	4030661434605
eCl@ss number, Version 9.0	27-27-24-03
eCl@ss number, Version 11.0	27-27-24-03

### Approval - Standards

Certificates	TÜV cULus ASi-SaW EAC FCC
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### General data

Standards	IEC 61508 IEC 60947-5-3 EN ISO 14119 EN 62026-2 EN ISO 13849-1
general information	Universal coding

Coding level according to ISO 14119	Low
Active principle	RFID
Enclosure material	Thermoplastic hotmelt
Gross weight	60 g
Time to readiness, maximum	2,000 ms
Reaction time, maximum	100 ms
Duration of risk, maximum	200 ms

### General data - Features

Coding	Yes
Safety functions	Yes
Integral System Diagnostics, status	Yes
Number of actuating directions	2

### Safety appraisal

Standards	IEC 61508
Performance level, up to	e
Control category to EN13849	4
PFH-value	$3.93 \times 10^{-10}$ /h
PFD value	$6.89 \times 10^{-5}$
Safety Integrity Level (SIL), suitable for applications in	3
Mission Time	20 Year(s)

### Mechanical data

Hysteresis (Switch distance), maximum	2 mm
Repeat accuracy R R	0.5 mm

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

Switch distance $S_n$	12 mm 9 mm (in case of approach from side)
Ensured switching distance "ON", front	10 mm
Ensured switching distance "OFF", front	18 mm
Ensured switching distance "ON", side	6 mm
Ensured switch distance "OFF" $S_{ar}$ , lateral	15 mm

## Mechanical data - Connection technique

Terminal Connector	Connector M8, 4-pole, A-coded
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## Mechanical data - Dimensions

Length of sensor	18 mm
Width of sensor	40 mm
Height of sensor	29.5 mm

## Ambient conditions

Degree of protection	IP65 to EN 60529 IP67 to EN 60529
Ambient temperature, minimum	-25 °C
Ambient temperature, maximum	+60 °C
Storage and transport temperature, minimum	-25 °C
Storage and transport temperature, maximum	+85 °C
Resistance to vibrations to EN 60068-2-6	10 ... 55 Hz, amplitude 1 mm
Resistance to shock	30 g / 11 ms
Protection rating	III

## Ambient conditions - Insulation value

Rated insulation voltage $U_i$	32 VDC
Rated impulse withstand voltage $U_{imp}$	0.8 kV
Overtoltage category	III
Degree of pollution to VDE 0100	3

## Electrical data

Switching frequency, maximum	1 Hz
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## Electrical data - AS Interface

AS-i Operating voltage, minimum	18 VDC
AS-i Operating voltage AS-i maximum	31.6 VDC
Note (AS-i Operating voltage)	Protection against polarity reversal
AS-i Current consumption, maximum	100 mA

## Electrical data - AS-Interface specification

AS-i Specification	Safety-Slave
AS-i Version	V 2.1
AS-i Profile	S-0.B.F.E
AS-i, IO-Code	0x0
AS-i, ID-Code	0xB
AS-i, ID-Code1	0xF
AS-i, ID-Code2	0xE
AS-i Input, Channel 1	Data bits DI 0 / DI 1 = dynamic code transmission
AS-i Input, Channel 2	Data bits DI 2 / DI 3 = dynamic code transmission
AS-i Outputs, DO 0 ... DO 3	No Function
AS-i Parameter bits, P0	Actuator in

AS-i Parameter bits, P1	Enabling inhibit (tamper protection time) active (FID))
AS-i Parameter bits, P2	No function
AS-i Parameter bits, P3	Internal device error (FID)
Note (AS-i Parameter bits)	Set the parameter outputs to "1111" (0xF) FID: periphery error
AS-i Input module address	0
Note (AS-i Input module address)	Preset to address 0, can be changed through AS-interface bus master or hand-held programming device

## Status indication

Note (LED switching conditions display)	(1) green/red LED (AS-i Duo LED):Supply voltage / communication error / slave address = 0 / periphery error detected / Tamper protection time active (2) yellow LED: device condition (enabling status) / hysteresis signal / device error
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## Pin assignment

PIN 1	AS-Interface +
PIN 2	n.c. ( $\leq 30$ VDC)
PIN 3	AS-Interface -
PIN 4	n.c. ( $\leq 30$ VDC)

## Scope of delivery

Included in delivery	Actuators must be ordered separately.
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## Accessory

Recommendation (actuator)	RST260-1
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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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