



RSS260-I1-ST-AS

- Individual coding with RFID technology
- Coding level "High" according to ISO 14119
- Safety sensor, electronic
- Thermoplastic enclosure
- Small body, high switching distance
- Protection class IP65 / IP67

Data

Ordering data

EAN (European Article Number)	4030661434629
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	Individual coding

Coding level according to ISO 14119	High
Active principle	RFID
Enclosure material	Thermoplastic hotmelt
Gross weight	55 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	3.93×10^{-10} /h
PFD value	6.89×10^{-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
Overvoltage 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. (≤ 30 VDC)
PIN 3	AS-Interface -
PIN 4	n.c. (≤ 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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