Datasheet - RSS260-I2-ST-AS

AS interface safety at work / Safety switchgear / Safety sensors / RSS260 AS

SCHMERSAL

- Safety sensor, electronic
- Thermoplastic enclosure
- Universal repeatedly teachable or individual coding because of the RFID technology
- I-variants with coding level HIGH to ISO 14119
- Small body, high switching distance
- Protection class IP65 / IP67
- Repeated individual coding with RFID technology
- Coding level "High" according to ISO 14119

(Minor differences between the printed image and the original product may exist!)

Ordering details

Product type description	RSS260-I2-ST-AS
Article number	103004641
EAN Code	
eCl@ss	27-27-24-02

Approval

Approval	c(UL)us TÜV

Classification

Standards	EN ISO 13849-1, IEC 61508
PL	e
Control category	4
PFH value	3.93×10^{-10} /
PFD value	6.89×10^{-5}
SIL	3
Mission time	20 Years

Global Properties

Permanent light	RSS260 AS
Standards	EN 50295, ISO 14119, IEC 61508, EN ISO 13849-1

Compliance with the Directives (Y/N) $\mathsf{C}\,\mathsf{E}$	Yes
Suitable for safety functions (Y/N)	Yes
Number of actuating directions	2
Active principle	RFID
Coding levels according to ISO 14119	High
Coding	Individual coding, multiple teaching
Materials	
- Material of the housings	Thermoplastic hotmelt
Weight	29
Coding available (Y/N)	Yes
Response time	< 100
Duration of risk	< 200
Time to readiness	≤ 2 s
Switch frequency	≤ 1
Recommended actuator	RST260-1

Mechanical data

Design of electrical connection	Connector M8, 4-pole, A-coded
Switch distance	12 9 (in case of approach from side)
Ensured switch distance ON	10 6 (in case of approach from side)
Ensured switch distance OFF	18 15 (in case of approach from side)
hysteresis	< 2 mm
Repeat accuracy R	< 0,5 mm
notice	Minimum distance between two safety sensors 100 mm
restistance to shock	30 / 11
Resistance to vibration	10 … 55 HZ, Amplitude 1 mm
Latching (Y/N)	No

Ambient conditions

Ambient temperature	
- Min. environmental temperature	−25
- Max. environmental temperature	+60
Storage and transport temperature	
- Min. Storage and transport temperature	−25
- Max. Storage and transport temperature	+85
Protection rating	III
Air clearances and creepage distances To IEC/EN 60664-1	
- Rated impulse withstand voltage	0,8
- Rated insulation voltage	32
- Overvoltage category	III
- Degree of pollution	3
Protection class	IP65 / IP67 to IEC/EN 60530

Electrical data - AS interface

AS-i Supply voltage	18 … 31.6 VDC, Protection against polarity reversal
AS-i operating current	≤ 100
AS-i Device insulation	internally short-circuit proof
AS-i Specification	Safety Slave
- version	V 2.1

- Profile	S-0.B.F.E
AS-i Inputs	
- Channel 1	Data bits DI 0/DI 1= dynamic code transmission
- Channel 2	Data bits DI 2/DI 3= dynamic code transmission
AS-i Outputs	DO 0 … DO 3 not used
AS-i Parameter bits	
- P0	Actuator in
- P1	Hysteresis area notification (FID)
- P2	Tampering protection time active (FID)
- P3	device error (FID)
AS-i input module address	0
- Default on address 0, programmable via the AS-Interface Master or Hand-held programming device	
notice	Set the parameter outputs to "1111" (0xF) FID: periphery error

LED switching conditions display

LED switching conditions display (Y/N)	Yes
(1) green/red LED (AS-i duo LED)	Supply voltage / Communication error / slave address = 0 / periphery error detected / Tampering protection time active
(2) yellow LED	Device status (Enabling status) / Hysteresis area notification / device error

ATEX

Explosion protection categories for gases	None
Explosion protected category for dusts	None

Dimensions

Dimensions of the sensor	
- Width of sensor	40
- Height of sensor	29.5
- Length of sensor	18

Included in delivery

Actuators must be ordered separately.

Documents

Operating instructions and Declaration of conformity (en) 505 kB, 16.03.2018
Code: mrl_rss260lst-as_en

Operating instructions and Declaration of conformity (de) 483 kB, 16.03.2018
Code: mrl_rss260lst-as_de

Operating instructions and Declaration of conformity (nl) 502 kB, 13.07.2018
Code: mrl_rss260lst-as_nl

Operating instructions and Declaration of conformity (pt) 507 kB, 18.04.2018
Code: mrl_rss260lst-as_pt

Operating instructions and Declaration of conformity (pl) 519 kB, 14.08.2018
Code: mrl_rss260lst-as_pl

Operating instructions and Declaration of conformity (es) 509 kB, 28.03.2018

Code: mrl_rss260lst-as_es

Operating instructions and Declaration of conformity (it) 502 kB, 20.06.2018

Code: mrl_rss260lst-as_it

Operating instructions and Declaration of conformity (fr) 505 kB, 04.05.2018

Code: mrl_rss260lst-as_fr

TÜV certification (de, en) 1 MB, 07.08.2017

Code: z_rssp02

Images