Datasheet - RSS 36-ST-AS-R

AS interface safety at work / Safety switchgear / Safety sensors / RSS 36 AS

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

- Thermoplastic enclosure
- RFID-technology for needs-based protection against tampering
- optionally with integrated magnetic latching
- Universal coding with RFID technology
- with latching

Ordering details

Product type description	RSS 36-ST-AS-R
Article number	103001534
EAN Code	
eCl@ss	27-27-24-02

Approval

Approval	ECOLAB

Classification

Standards	EN ISO 13849-1, IEC 61508
PL	up e
Control category	bis 4
PFH value	5.13 x 10^{-10} /
PFD value	3.24 x 10^{-5}
SIL	up 3
Mission time	20 Years

Global Properties

Permanent light	RSS 36 AS
Standards	EN 50295, IEC 60947-5-3, EN ISO 13849-1, IEC 61508
Compliance with the Directives (Y/N) CE	Yes
Suitable for safety functions (Y/N)	Yes
Number of actuating directions	3
Active principle	RFID
Coding	Universal coding
Coding levels according to ISO 14119	low
Materials	
- Material of the housings	Plastic, glass-fibre reinforced thermoplastic, self-extinguishing
Weight	80
Coding available (Y/N)	Yes
Response time	< 100
Duration of risk	< 200
Time to readiness	≤ 5
Switch frequency	≤ 1
Recommended actuator	RST 36-1-R

Mechanical data

Design of electrical connection	Connector M12, 4-pole
Mechanical life	> 1.000.000 operations
- notice - Mechanical life	operations for guards ≤ □5 kg; actuating speed ≤ 0,25 m/s
Switch distance	12
Ensured switch distance ON	10
Ensured switch distance OFF	16
hysteresis	< 2 mm
Repeat accuracy R	< 0,5 mm
Authorised actuator misalignment	± 8 vertical; ± 18 horizontal
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)	Yes
Latching force	18

Ambient conditions

Ambient temperature	
- Min. environmental temperature	−25
- Max. environmental temperature	+70
Storage and transport temperature	
- Min. Storage and transport temperature	−25
- Max. Storage and transport temperature	+85
Protection class	IP65 / IP67 to IEC/EN 60529; IP69K to DIN 40050-9
Protection rating	II
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

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 3.0
- 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) red LED	device error
(3) yellow LED	Enabling status / Hysteresis area notification

ATEX

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

Dimensions

Dimensions of the sensor	
- Width of sensor	106.3
- Height of sensor	25
- Length of sensor	22

Included in delivery

Actuators must be ordered separately.

Ordering code

RSS 36-(1)-ST-AS-(2)

(1)

without	Included in standard version Coding
AD	Included in standard version Coding,

I1	Individual coding
I2	Individual coding, for multiple applications
(2)	
without	without latching
R	with latching, Latching force approx. 18 N

Documents

Operating instructions and Declaration of conformity (en) 348 kB, 19.02.2018
Code: mrl_rss36as-rst36-1_en

Operating instructions and Declaration of conformity (pt) 352 kB, 05.03.2018
Code: mrl_rss36as-rst36-1_pt

Operating instructions and Declaration of conformity (nl) 348 kB, 05.03.2018
Code: mrl_rss36as-rst36-1_nl

Operating instructions and Declaration of conformity (es) 354 kB, 05.03.2018
Code: mrl_rss36as-rst36-1_es

Operating instructions and Declaration of conformity (it) 324 kB, 22.11.2016
Code: mrl_rss36as-rst36-1_it

Operating instructions and Declaration of conformity (de) 326 kB, 19.02.2018
Code: mrl_rss36as-rst36-1_de

Operating instructions and Declaration of conformity (fr) 320 kB, 16.02.2017
Code: mrl_rss36as-rst36-1_fr

Operating instructions and Declaration of conformity (pl) 338 kB, 02.02.2017
Code: mrl_rss36as-rst36-1_pl

TÜV certification (de, en) 505 kB, 12.09.2018
Code: z_rssp01

Images