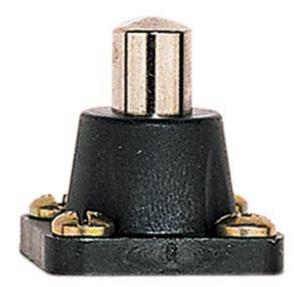
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Datasheet - TS 336 ST-AS

AS interface safety at work / Safety switchgear / Safety switches / 336 AS / AS - 336 Plunger S





- AS-Interface M12 connector
- Thermoplastic enclosure
- Wide range of alternative actuators
- · Good resistance to oil and petroleum spirit
- 40,5 mm x 96 mm x 38 mm
- Actuator heads can be repositioned by 4 x 90°
- Mounting details to EN 50047
- AS-Interface LED and status display
- Integrated AS-Interface
- Suitable for AS-i Power24

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

Ordering details

Product type description	TS 336 ST-AS
Article number	TS 336 ST-AS
EAN Code	
eCl@ss	27-27-26-01

Approval

Approval



Classification

EN ISO 13849-1, IEC 61508
up c
up 1
1.14 x 10-6 /
up to max. 100000 switching cycles/year
up 1
20 Years

If a fault exclusion for hazardous damage of the 1-channel mechanics is authorized and an adequate protection against tampering is ensured, suitable for use up to:

PL
Control category
PFH value
- notice
SIL
Mission time

Global Properties

up d up 3 1.01 x 10-7 / up to max. 100000 switching cycles/year up 2 20 Years

Permanent light	AS - 336 Druckbolzen S
ů	
Standards	EN 50295, EN 60947-5-1, EN ISO 13849-1, IEC 61508
Compliance with the Directives (Y/N) C ϵ	Yes
Suitable for safety functions (Y/N)	Yes
Actuator type	B to EN 50041
Materials	
- Material of the housings	Plastic, glass-fibre reinforced thermoplastic, self-extinguishing
- Material of the connector	Metal film
- Material of the contacts	Silver
Housing coating	
Housing construction form	Norm construction design
Weight	
Mechanical data	

Mechanical data

Design of electrical connection	connector plug M12, 4-pole
Mechanical life	1.000.000 operations
Switching frequency	5000
Design of actuating element	Plunger
restistance to shock	30 / 11
Resistance to vibration	10 150, Amplitude 0,35 / 5
Actuating speed for vertical actuation	
- Min. Actuating speed	
- Max. Actuating speed	0,5

Ambient conditions

Ambient temperature		
- Min. environmental temperature	-25	
- Max. environmental temperature	+60	
- Min. Storage and transport temperature	-25	
- Max. Storage and transport temperature	+85	
Relative humidity	30 95	
- non-condensing		
- non-icing		
Protection class	IP67 to IEC/EN 60529	

Electrical data

Design of control element	Opener (NC)
Switching principle	Creep circuit element
- positive break NC contact 😔	
Number of auxiliary contacts	0
Number of safety contacts	2

Rated impulse withstand voltage
Rated insulation voltage
Thermal test current
Utilisation category

Max. fuse rating

Electrical data - AS interface

AS-i Supply voltage	18 31.6 VDC, Protection against polarity reversal
AS-i operating current	≤ 50
- AS electronics	
- Total	
AS-i Device insulation	internally short-circuit proof
AS-i Specification	
- version	V 3.0
- Profile	S-0.B.F.F
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	P1 P3 not used
- P0	Channel 2 switched
AS-i input module address	0
- Default on address 0, programmable via the AS-Interface Master or I	Hand-held programming device

AC-15: 230 V / 4 A, DC-13: 24 V / 1 A

6 A gG D-fuse

LED switching conditions display

LED switching conditions display (Y/N)	Yes
AS-i LED switching conditions display (TN)	165
č	
(1) yellow LED	Channel 1 / AS-i SaW Bit 0,1
(2) green/red LED (AS-i duo LED)	Supply voltage / Communication error / slave address = 0
(3) yellow LED	Channel 2 / AS-i SaW Bit 2,3

ATEX

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

Dimensions

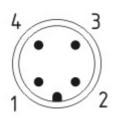
Dimensions of the sensor	
- Width of sensor	40.5
- Height of sensor	123.5
- Length of sensor	38

Pin assignment

1	AS interface +
2	None
3	AS interface -
4	None

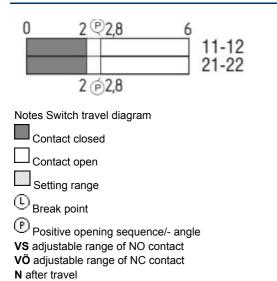
The addressing must take place via the M12 connector or the flat cable connection.

Diagram



Note Diagram → positive break NC contact active no active Normally-open contact o → → ○ Normally-closed contact

Switch travel diagram



Ordering suffix

The applicable ordering suffix is added at the end of the part number of the safety switch. Order example: TS 336 ST-AS**-FK**

- FK	\$missingName\$	
Ordering code		
T <mark>(1)</mark> 336 <mark>(2)</mark> -AS		
(1)		
S	Plunger S	
R	Roller plunger R	
1K	Offset roller lever 1K	

Angle roller lever 3K

3K

н	Roller lever H
1H	Roller lever 1H
7H	Roller lever 7H
(2)	
ST	connector plug M12, Metal film
FK	Connection for flat cable

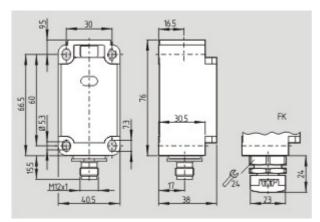
Documents

TÜV certification (de, en) 46 kB, 02.04.2014 Code: z_t3p01

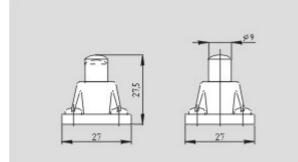
Images



Product photo

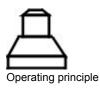


Dimensional drawing (basic component)



Dimensional drawing (actuator)





K.A. Schmersal GmbH & Co. KG, Möddinghofe 30, D-42279 Wuppertal The data and values have been checked throroughly. Technical modifications and errors excepted. Generiert am 13.02.2019 - 12:43:31h Kasbase 3.3.0.F.64I