13.02.2019

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# Datasheet - T3K 336 ST-AS

AS interface safety at work / Safety switch gear / Safety switches / 336 AS / AS - 336 Angle roller lever 3 K





• Actuation from bottom parallel to the switch, therefore only suitable for small housings.

- 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 Article number EAN Code eCl@ss T3K 336 ST-AS T3K 336 ST-AS

27-27-26-01

#### Approval

Approval



#### Classification

Standards	
Stanuarus	EN ISO 13849-1, IEC 61508
PL	up c
Control category	up 1
PFH	1.14 x 10-6 /
- notice	up to max. 100000 switching cycles/year
SIL	up 1
Mission time	20 Years
If a fault exclusion for hazardous damage of the 1-channel mechanics is suitable for use up to:	authorized and an adequate protection against tampering is ensured,

#### Standards

EN ISO 13849-1, IEC 61508

Control category
PFH value
- notice
SIL
Mission time

# **Global Properties**

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

Permanent light	AS - 336 Winkelhebel 3K
Standards	EN 50295, EN 60947-5-1, EN ISO 13849-1, IEC 61508
Compliance with the Directives (Y/N) CE	Yes
Suitable for safety functions (Y/N)	Yes
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

Design of actuating element	Angle roller lever	
Design of electrical connection	connector plug M12, 4-pole	
Mechanical life	1.000.000 operations	
Switching frequency	5000	
restistance to shock	30 / 11	
Resistance to vibration	10 150, Amplitude 0,35 / 5	
Actuating speed with actuating angle 30° to switch axis		
- 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	800
Rated insulation voltage	32

Max. fuse rating

# **Electrical data - AS interface**

10 A AC-15: 230 V / 4 A, DC-13: 24 V / 1 A 6 A gG D-fuse

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 of	r Hand-held programming device

- Default on address 0, programmable via the AS-Interface Master or Hand-held programming device

# LED switching conditions display

LED switching conditions display (Y/N)	Yes
AS-i LED switching conditions display	
(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

- Width of sensor58.25- Height of sensor152.5- Length of sensor38	Dimensions of the sensor	
0	- Width of sensor	58.25
- Length of sensor 38	- Height of sensor	152.5
	- Length of sensor	38

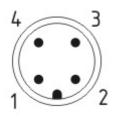
#### Pin assignment

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

# notice

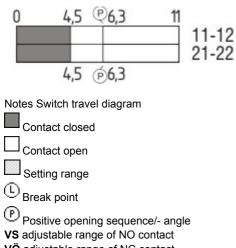
The addressing must take place via the M12 connector or the flat cable connection.

### Diagram



Note Diagram → positive break NC contact ① active 2 no active Normally-open contact → Normally-closed contact

# Switch travel diagram



VÖ adjustable range of NC contact N after travel

#### **Ordering suffix**

The applicable ordering suffix is added at the end of the part number of the safety switch. Order example: T3K 336 ST-AS**-FK** 

...**-FK** 

\$missingName\$

#### **Ordering code**

T(1) 336 (2)-AS	
(1)	
S	Plunger S
R	Roller plunger R
1К	Offset roller lever 1K
ЗК	Angle roller lever 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

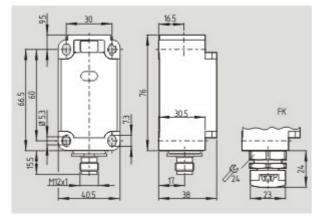
# Documents

**TÜV certification** (de, en) 46 kB, 02.04.2014 Code: z\_t3p01

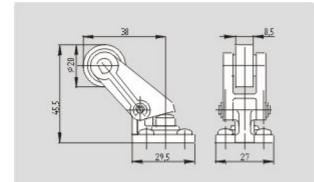
# Images



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 - 12:43:28h Kasbase 3.3.0.F.64l