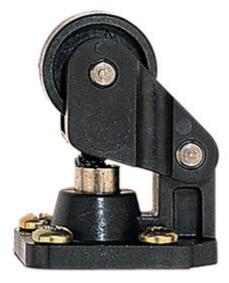
Datasheet - T1K 336 ST-AS



AS interface safety at work / Safety switchgear / Safety switches / 336 AS / AS - 336 Offset roller lever 1K



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

- 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

Ordering details

Product type description T1K 336 ST-AS
Article number T1K 336 ST-AS

eCl@ss 27-27-26-01

Approval

EAN Code

Approval



Classification

Standards 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 authorized and an adequate protection against tampering is ensured, suitable for use up to:

Standards EN ISO 13849-1, IEC 61508

PL up d

Control category up 3

PFH value 1.01 x 10-7/

- notice up to max. 100000 switching cycles/year

SIL up 2
Mission time 20 Years

Global Properties

Permanent light AS - 336 Rollenhebel 1K

Standards EN 50295, EN 60947-5-1, EN ISO 13849-1, IEC 61508

Materials

- Material of the housings Plastic, glass-fibre reinforced thermoplastic, self-extinguishing

- Material of the connector- Material of the contacts- Silver

Housing coating

Housing construction form Norm construction design

Weight

Mechanical data

Design of actuating element Offset 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 $10 \dots 150$, 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
 Max. environmental temperature
 Min. Storage and transport temperature

- Max. Storage and transport temperature +85
Relative humidity 30 ... 95

Relative humidity
- non-condensing

- non-icing

Number of auxiliary contacts

Protection class IP67 to IEC/EN 60529

Electrical data

Design of control element Opener (NC)

Switching principle Creep circuit element

- positive break NC contact 🕣

0

Number of safety contacts 2
Rated impulse withstand voltage 800
Rated insulation voltage 32

Thermal test current 10 A

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

Max. fuse rating 6 A gG D-fuse

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 Channel 2 switched

AS-i input module address

- 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

Explosion protected category for dusts

None

Dimensions

Dimensions of the sensor

- Width of sensor
- Height of sensor
- Length of sensor
38

Pin assignment

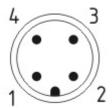
1 AS interface +

2 None

3 AS interface –
4 None

notice

Diagram



Note Diagram

opositive break NC contact

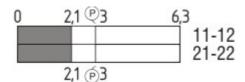
 $^{\textcircled{\tiny{1}}}_{\text{active}}$

no active

o—___o Normally-open contact

o-t---o Normally-closed contact

Switch travel diagram



Notes Switch travel diagram

Contact closed

Contact open

Setting range

 $^{\textcircled{L}}_{\text{Break point}}$

Positive opening sequence/- angle

VS adjustable range of NO contact

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: T1K 336 ST-AS-FK

...**-FK** \$missingName\$

Ordering code

T(1) 336 (2)-AS

(1)

S Plunger S R Roller plunger R

1K Offset roller lever 1K

3K Angle roller lever 3K

H Roller lever H

1H Roller lever 1H

7H Roller lever 7H

(2)

ST connector plug M12, Metal film FK Connection for flat cable

Documents

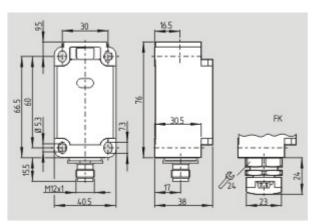
TÜV certification (de, en) 46 kB, 02.04.2014

Code: z_t3p01

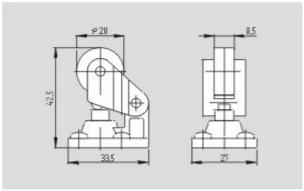
Images



Product photo



Dimensional drawing (basic component)



Dimensional drawing (actuator)





Operating principle

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 - 12:43:29h Kasbase 3.3.0.F.64l