


Datasheet - T3K 336-11Z-U90



Position switch / 336 Thermoplastic enclosure - EN 50041 with Actuator / 336 Angle roller lever 3K



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

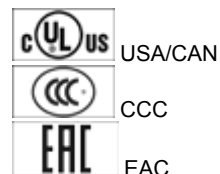
- Design to EN 50041
- Actuation from bottom parallel to the switch, therefore only suitable for small housings.
- Thermoplastic enclosure
- Double-insulated 
- Good resistance to oil and petroleum spirit
- Wide range of alternative actuators
- Actuator heads can be repositioned by 4 x 90°
- 1 Cable entry M 20 x 1.5
- Actuating head rotated by 90°

Ordering details

Product type description	T3K 336-11Z-U90
Article number	101171823
EAN Code	4030661299556
notice	Position switch for Safety flaps SL 300
eCl@ss	27-27-26-01

Approval


Approval



Classification

Standards	EN ISO 13849-1
B10d Normally-closed contact (NC)	20.000.000
B10d Normally open contact (NO)	1 million operations
Mission time TM	20 Years
notice	$MTTF_d = \frac{B_{10d}}{0,1 \times n_{op}}$ $n_{op} = \frac{d_{ap} \times h_{ep} \times 3600 \text{ s/h}}{t_{cycle}}$

Global Properties

Permanent light	336 Winkelhebel 3K
Standards	EN 60947-5-1, BG-GS-ET-15
Compliance with the Directives (Y/N) 	Yes
Suitable for safety functions (Y/N)	Yes
Materials	
- Material of the housings	Plastic, glass-fibre reinforced thermoplastic, self-extinguishing
- Material of the contacts	Silver
Housing coating	None
Housing construction form	Norm construction design
Weight	120
Recommended combinations	Safety flaps SL 300


Mechanical data

Design of electrical connection	Screw connection
Cable section	
- Min. Cable section	0,75
- Max. Cable section	2.5
Mechanical life	30.000.000 operations
Switching frequency	max. 5000 /h
notice	All indications about the cable section are including the conductor ferrules.
Design of actuating element	Angle roller lever
Actuating force	min. 17 N
Bounce duration	< 2
Switchover time	in accordance with actuating speed
Actuating speed with actuating angle 30° to switch axis	
- Min. Actuating speed	
- Max. Actuating speed	0,5 m/s

Ambient conditions

Ambient temperature	
- Min. environmental temperature	-30 °C
- Max. environmental temperature	+80 °C
Protection class	IP67

Electrical data

Design of control element	Normally open contact (NO), Opener (NC)
Switching principle	Creep circuit element
- positive break NC contact 	
Number of auxiliary contacts	1
Number of safety contacts	1
Rated impulse withstand voltage U_{imp}	6 kV
Rated insulation voltage U_i	500 V
Thermal test current I_{the}	10 A
Utilisation category	AC-15: 230 V / 4 A, DC-13: 24 V / 4 A
Required rated short-circuit current	1000 A
Max. fuse rating	6 A gG D-fuse

Dimensions

Dimensions of the sensor

- Width of sensor	53 mm
- Height of sensor	121.5 mm
- Length of sensor	38 mm

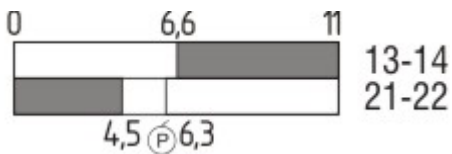
Diagram



Note Diagram

- positive break NC contact
- active
- no active
- Normally-open contact
- Normally-closed contact

Switch travel diagram



Notes Switch travel diagram

- Contact closed
- Contact open
- Setting range
- 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: T3K 336-11Z-U90-**NPT**

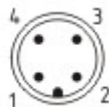
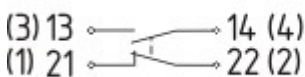
...-**NPT**

Cable entry NPT 1/2"

...-**1637**

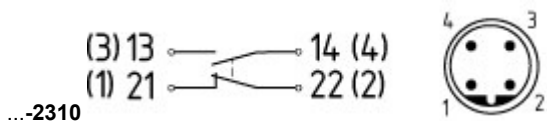
0,3 µm gold-plated contacts

...-**ST**



M12 connector with A-coding
 Rated impulse withstand voltage U_{imp} : 4 kV
 Rated insulation voltage U_i : 250 V
 Rated operating voltage U_e : 230 V
 Operating current I_e : 4 A

M12 connector with B-coding
 Rated impulse withstand voltage U_{imp} : 4 kV



Rated insulation voltage U_i : 250 V
 Rated operating voltage U_e : 230 V
 Operating current I_e : 4 A

Ordering code

(1)(2) 336-(3)Z(4)-(5)-(6)-(7)

(1)

Z Snap action

T Slow action

(2)

S Plunger S

R Roller plunger R

H Roller lever H

10H Rod lever 10H

7H Roller lever 7H

1K Offset roller lever 1K

3K Angle roller lever 3K

(3)

11 1 Normally open contact (NO) / 1 Opener (NC)

02 2 Opener (NC)

20 2 Normally open contact (NO), (Switch with 2 NO contacts are not for security tasks)

01/01 1 Opener (NC) left / 1 Opener (NC) right

(4)

H Slow action with staggered contacts

UE Slow action with overlapping contacts

(5)

without Cable entry M20

NPT cable entry NPT 1/2"

ST M12 connector with A-coding

ST-2310 M12 connector with B-coding

(6)

2138 Roller lever 7H for Position switches with safety function

(7)

1637 gold-plated contacts

Documents

Operating instructions and Declaration of conformity (de) 157 kB, 18.06.2018

Code: mrlk_zt332-335-336-355_de

Operating instructions and Declaration of conformity (nl) 162 kB, 27.06.2018

Code: mrlk_zt332-335-336-355_nl

Operating instructions and Declaration of conformity (it) 162 kB, 27.06.2018

Code: mrlk_zt332-335-336-355_it

Operating instructions and Declaration of conformity (pt) 163 kB, 27.06.2018

Code: mrlk_zt332-335-336-355_pt

Operating instructions and Declaration of conformity (pl) 198 kB, 27.06.2018

Code: mrlk_zt332-335-336-355_pl

Operating instructions and Declaration of conformity (en) 160 kB, 18.06.2018

Code: mrlk_zt332-335-336-355_en

Operating instructions and Declaration of conformity (fr) 164 kB, 27.06.2018

Code: mrlk_zt332-335-336-355_fr

Declaration of conformity (es) 91 kB, 18.06.2018

Code: KAS_konfi_nsr_zt2xx-3xx_es

Declaration of conformity (pl) 130 kB, 18.06.2018

Code: KAS_konfi_nsr_zt2xx-3xx_pl

Declaration of conformity (it) 89 kB, 18.06.2018

Code: KAS_konfi_nsr_zt2xx-3xx_it

Declaration of conformity (pt) 90 kB, 18.06.2018

Code: KAS_konfi_nsr_zt2xx-3xx_pt

Declaration of conformity (fr) 89 kB, 18.06.2018

Code: KAS_konfi_nsr_zt2xx-3xx_fr

Declaration of conformity (de) 581 kB, 07.06.2018

Code: KAS_konfi_nsr_zt2xx-3xx_de

Declaration of conformity (en) 579 kB, 07.06.2018

Code: KAS_konfi_nsr_zt2xx-3xx_en

Declaration of conformity (nl) 89 kB, 18.06.2018

Code: KAS_konfi_nsr_zt2xx-3xx_nl

CCC certification (en) 187 kB, 03.08.2015

Code: q_347p02

CCC certification (cn) 166 kB, 03.08.2015

Code: q_347p03

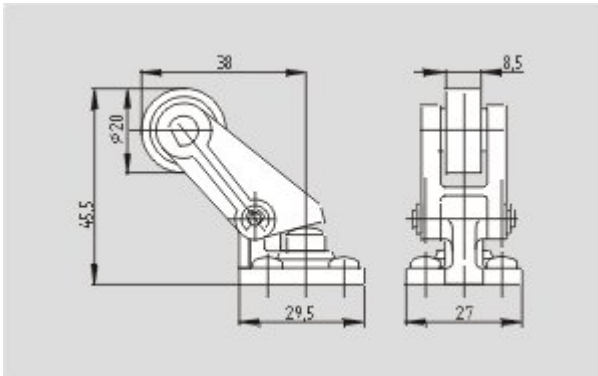
EAC certification (ru) 844 kB, 05.10.2015

Code: q_6037p17_ru

Images



Dimensional drawing (basic component)



Dimensional drawing (actuator)

K.A. Schmersal GmbH & Co. KG, Mödinghofe 30, D-42279 Wuppertal

The data and values have been checked thoroughly. Technical modifications and errors excepted.

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