

Datasheet - T3K 355-20zh

Position switch / 355 Metal enclosure - EN 50041 with Actuator / 355 Angle roller lever 3K



- Metal enclosure
- Wide range of alternative actuators
- Good resistance to oil and petroleum spirit
- 66,7 mm x 76 mm x 38 mm
- 3 cable entries lateral M 20 x 1.5
- Actuator heads can be repositioned by 4 x 90°
- Mounting details to EN 50041
- Switching points to EN 50041
- Actuation from bottom parallel to the switch, therefore only suitable for small housings.

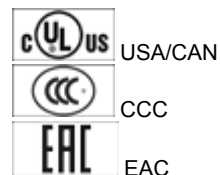
(Minor differences between the printed image and the original product may exist!)

Ordering details

Product type description	T3K 355-20ZH
Article number	101087140
EAN Code	
eCl@ss	27-27-26-01

Approval

Approval




Classification

Standards	EN ISO 13849-1
Mission time	20 Years
notice	$MTTF_d = \frac{B_{10d}}{0,1 \times n_{op}}$ $n_{op} = \frac{d_{op} \times h_{op} \times 3600 \text{ s/h}}{t_{cycle}}$

Global Properties

Permanent light	T 355 Winkelhebel 3K
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Standards	EN 60947-5-1, BG-GS-ET-15
Compliance with the Directives (Y/N) 	Yes
Suitable for safety functions (Y/N)	No
Materials	
- Material of the housings	Aluminium
- Material of the contacts	Silver
Housing coating	painted
Housing construction form	Norm construction design
Weight	280

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)
Switching principle	Slow action with staggered contacts
Number of auxiliary contacts	2
Number of safety contacts	0
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

ATEX

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

Dimensions

Dimensions of the sensor

- Width of sensor	66.7 mm
- Height of sensor	121.5 mm
- Length of sensor	38 mm






notice

Switch with 2 NO contacts are not for security tasks

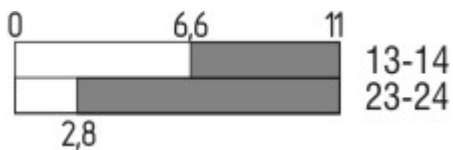
Diagram








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 355-20zh-**1637**

....-**1637** 0,3 µm gold-plated contacts

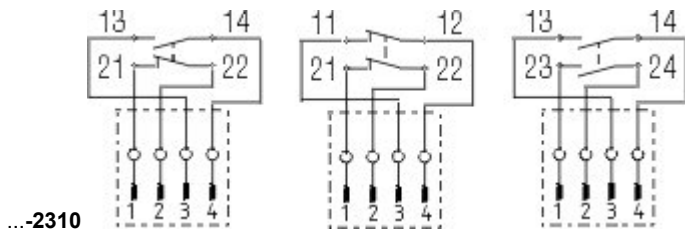
....-**NPT** Cable entry NPT 1/2"

M12 connector with A-coding
Rated impulse withstand voltage U_{imp} : 0,8 kV
Rated insulation voltage U_i : 50 V
Operating current I_e : AC-15: 50 V / 4 A



...ST

Caution! The versions with connector may only be used in PELV circuits to EN 60204-1.



...-2310

M12 connector with B-coding

Rated impulse withstand voltage U_{imp} : 0,8 kV

Rated insulation voltage U_i : 50 V

Operating current I_e : AC-15: 50 V / 4 A

Caution! The versions with connector may only be used in PELV circuits to EN 60204-1.

Ordering code

(1)(2) 3(3)5-(4)Z(5)-(6)-(7)-(8)-(9)

(1)

Z

T

(2)

S

R

H

10H

7H

1K

3K

(3)

3

5

(4)

11

02

20

01/01

12

03

(5)

H

UE

(6)

G24

(7)

without

NPT

ST

ST-2310

Snap action

Slow action

Plunger S

Roller plunger R

Roller lever H

Rod lever 10H

Roller lever 7H

Offset roller lever 1K

Angle roller lever 3K

slim design

large design

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

2 Opener (NC)

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

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

1 Normally open contact (NO) / 2 Opener (NC)

3 Opener (NC)

Slow action with staggered contacts

Slow action with overlapping contacts

with LED

Cable entry M20

cable entry NPT 1/2"

M12 connector with A-coding (*Caution! The versions with connector may only be used in PELV circuits to EN 60204-1.*)

M12 connector with B-coding (*Caution! The versions with connector may only be used in PELV circuits to EN 60204-1.*)

(8)

2138 Roller lever 7H for Position switches with safety function

(9)

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

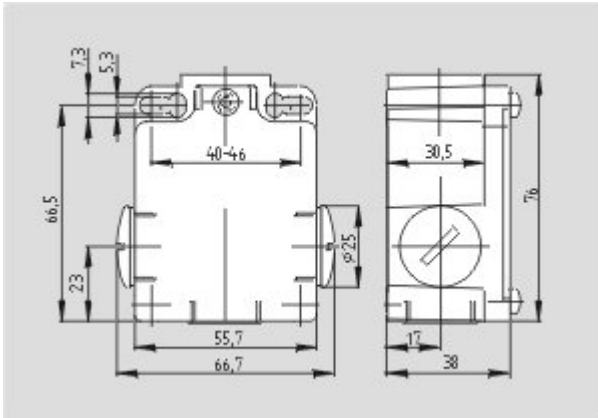
CCC certification (cn) 166 kB, 03.08.2015

Code: q_347p03

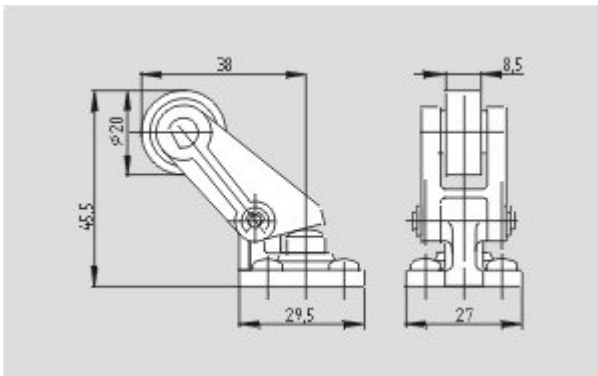
EAC certification (ru) 844 kB, 05.10.2015

Code: q_6037p17_ru

Images



Dimensional drawing (basic component)



Dimensional drawing (actuator)

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

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

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