13.02.2019

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Datasheet - TV10S 355-11Z

Safety switch for hinged guards / Hinge safety switch / TV.S 355





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

Ordering details

Product type description	TV10S 355-11Z
Article number	101117211
EAN Code	4030661073446
eCl@ss	27-27-26-01

Approval

Approval



· Metal enclosure

Good resistance to oil and petroleum spirit
Actuator heads can be repositioned by 4 x 90°

66,7 mm x 107 mm x 65,3 mm
Actuator shaft can be turned 360°

3 Cable entry M 20 x 1.5LED version available

Classification

Standards B10d Normally-closed contact (NC) Mission time notice EN ISO 13849-1 20.000.000 20 Years $MTTF_{d} = \frac{B_{10d}}{0.1 \times n_{op}}$ $n_{op} = \frac{d_{op} \times h_{op} \times 3600 \text{ s/h}}{t_{oyole}}$

Global Properties

Permanent light	TV.S 355
Standards	EN 60947-5-1, BG-GS-ET-15
Compliance with the Directives (Y/N) C ϵ	Yes
Materials	
- Material of the housings	Aluminium
- Material of the contacts	Silver
Housing coating	painted
Weight	310

Mechanical data

Design of electrical connection	Screw connection
Cable entry M 20 x 1.5	3
Cable section	
- Min. Cable section	0,75
- Max. Cable section	2.5
Design of actuating element	Other
Mechanical life	> 1.000.000 operations
Switching frequency	max. 1000 /h
notice	All indications about the cable section are including the conductor ferrules.
Shaft bore	Ø 10
Positive break angle	7 °
Positive break torque	60 Ncm

Ambient conditions

Ambient temperature	
- Min. environmental temperature	−25 °C
- Max. environmental temperature	+70 °C
Protection class	IP67

Electrical data

Design of control element	Normally open contact (NO), Opener (NC)
Switching principle	Creep circuit element
Number of auxiliary contacts	1
Number of safety contacts	1
Rated impulse withstand voltage Uimp	6 kV
Rated insulation voltage Ui	500 V
Thermal test current Ithe	10 A
Utilisation category	AC-15: 230 V / 4 A, DC-13: 24 V / 4 A
Max. fuse rating	6 A gG D-fuse

ATEX

Dimensions

Dimensions of the sensor	
- Width of sensor	66.7 mm
- Height of sensor	107 mm
- Length of sensor	65.3 mm

notice

Setting assistance

Grub screw for location, shaft pre-drilled for pin

Universal joint available to compensate for axial displacement (only for shaft bore 10 mm)

By turning the head in 90° steps, 8 actuating planes are possible. A Torx T10 screwdriver is needed for this purpose. Even when the screw is removed, the head is self-retaining. The switch can still not be tampered.

Diagram

Note Diagram

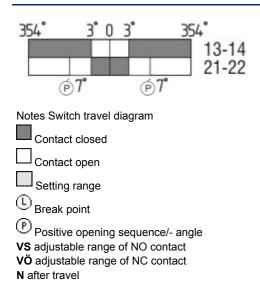
→ positive break NC contact
 → active

 Ino active

 Normally-open contact

 Output: Open contact

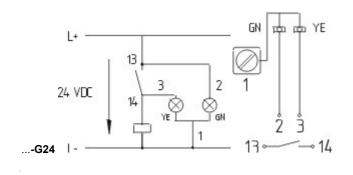
Switch travel diagram



Ordering suffix

...-NPT

The applicable ordering suffix is added at the end of the part number of the safety switch. Order example: TV10S 355-11Z**-NPT**



only available for version with one NO and one NC contact. Protected against incorrect polarity and voltage spikes.

Ordering code

TV(1)S 355-(2)Z-(3)

(1)	
8	Shaft bore Ø 8 mm
10	Shaft bore Ø 10 mm
(2)	
02	2 Opener (NC)
03	3 Opener (NC)
11	1 Normally open contact (NO) / 1 Opener (NC)
12	1 Normally open contact (NO) / 2 Opener (NC)
(3)	
withou	t Cable entry M20
NPT	cable entry NPT 1/2"
ST	M12 connector with A-coding (<i>Caution! The versions with connector may</i> only be used in PELV circuits to EN 60204-1.)
ST-231	10 M12 connector with B-coding (Caution! The versions with connector may only be used in PELV circuits to EN 60204-1.)
G24	with LED (only available for version with one NO and one NC contact.)
without NPT ST ST-231	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.) M12 connector with B-coding (Caution! The versions with connector may only be used in PELV circuits to EN 60204-1.)

Documents

Operating instructions and Declaration of conformity (de) 285 kB, 29.03.2017 Code: mrl_tvs335-355_de

Operating instructions and Declaration of conformity (fr) 285 kB, 11.05.2017 Code: mrl_tvs335-355_fr

Operating instructions and Declaration of conformity (es) 281 kB, 03.05.2017 Code: mrl_tvs335-355_es

Operating instructions and Declaration of conformity (jp) 420 kB, 29.11.2017 Code: mrl_tvs335-355_jp

Operating instructions and Declaration of conformity (nl) 312 kB, 05.07.2018 Code: mrl_tvs335-355_nl

Operating instructions and Declaration of conformity (it) 281 kB, 26.06.2017 Code: mrl_tvs335-355_it

Operating instructions and Declaration of conformity (en) 281 kB, 29.03.2017 Code: mrl_tvs335-355_en

Operating instructions and Declaration of conformity (da) 263 kB, 18.06.2013

Code: mrl_tvs335-355_da

Operating instructions and Declaration of conformity (pt) 283 kB, 10.05.2017 Code: mrl_tvs335-355_pt

Operating instructions and Declaration of conformity (pl) 313 kB, 17.07.2017 Code: mrl_tvs335-355_pl

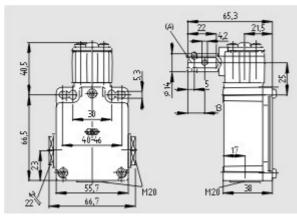
BG-test certificate (en) 166 kB, 09.12.2015 Code: z_tvsp02

BG-test certificate (de) 160 kB, 09.12.2015 Code: z_tvsp01

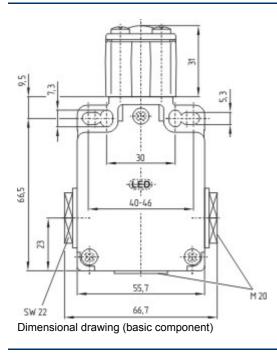
CCC certification (en) 577 kB, 12.12.2006 Code: q_349p02

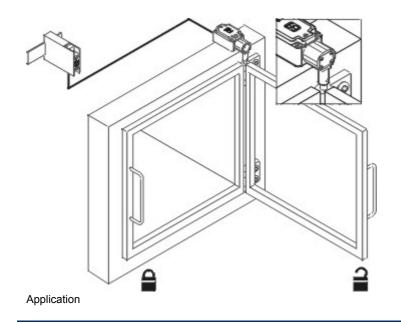
CCC certification (cn) 609 kB, 12.12.2006 Code: q_349p03

Images



Dimensional drawing (basic component)





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 - 14:34:26h Kasbase 3.3.0.F.64l