Datasheet - TV10S 335-02Z

Safety switch for hinged guards / Hinge safety switch / TV.S 335







- · Metal enclosure
- · Good resistance to oil and petroleum spirit
- \bullet Actuator heads can be repositioned by 4 x 90°
- 40,5 mm x 107 mm x 65,3 mm
- Actuator shaft can be turned 360°
- 1 Cable entry M 20 x 1.5

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

Ordering details

 Product type description
 TV10S 335-02Z

 Article number
 101157473

 EAN Code
 4030661180304

 eCl@ss
 27-27-26-01

Approval

Approval



Classification

Standards B10d Normally-closed contact (NC)

Mission time

EN ISO 13849-1 20.000.000 20 Years

$$MTTF_d = \frac{B_{10d}}{0.1 \times n_{op}}$$

$$n_{op} = \frac{d_{op} \times h_{op} \times 3600 \text{ s/h}}{t_{ovels}}$$

Global Properties

Permanent light TV.S 335

Standards EN 60947-5-1, BG-GS-ET-15

Compliance with the Directives (Y/N) C
Yes

Materials

- Material of the housings
- Material of the contacts
Silver
Housing coating
painted
Weight
260

Mechanical data

Design of electrical connection Screw connection

Cable entry M 20 x 1.5

Cable section

- Min. Cable section 0,75- Max. Cable section 2.5

Mechanical life > 1.000.000 operations

Switching frequency max. 1000 /h

notice All indications about the cable section are including the conductor ferrules.

Design of actuating element Other
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 Opener (NC)

Switching principle Creep circuit element

Number of auxiliary contacts0Number of safety contacts2Rated impulse withstand voltage Uimp6 kVRated insulation voltage Ui500 VThermal test current Ithe10 A

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

40.5 mm

- Height of sensor

107 mm

- Length of sensor

65.3 mm

notice

Setting assistance

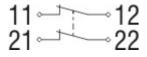
Grub screw for location, shaft pre-drilled for pin

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

opositive break NC contact

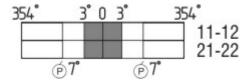




o-____ Normally-open contact

o-t---o Normally-closed contact

Switch travel diagram



Notes Switch travel diagram

Contact closed

Contact open

Setting range

(L) Break point

Positive opening sequence/- angle

VS adjustable range of NO contact

VÖ adjustable range of NC contact

N after travel

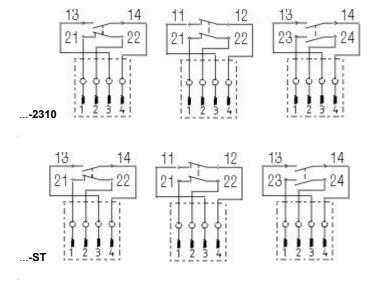
Ordering suffix

The applicable ordering suffix is added at the end of the part number of the safety switch.

Order example: TV10S 335-02Z-NPT

...-NPT

Cable entry NPT 1/2"



M12 connector with B-coding Rated impulse withstand voltage Uimp: 0,8 kV Rated insulation voltage Ui: 50 V Operating current le: AC-15: 50 V / 4 A

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

M12 connector with A-coding Rated impulse withstand voltage Uimp: 0,8 kV Rated insulation voltage Ui: 50 V Operating current le: AC-15: 50 V / 4 A

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

Ordering code

TV(1)S 335-(2)Z-(3)

(1)

Shaft bore Ø 8 mm Shaft bore Ø 10 mm 10

(2)

12

2 Opener (NC) 02

03 3 Opener (NC) 1 Normally open contact (NO) / 1 Opener (NC) 11

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

without

Cable entry M20 **NPT** cable entry NPT 1/2"

ST M12 connector with A-coding (Caution! The versions with connector may

only be used in PELV circuits to EN 60204-1.)

ST-2310 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.)

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

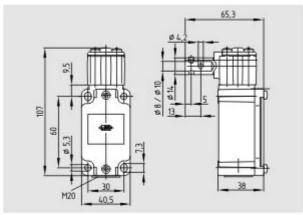
CCC certification (cn) 609 kB, 12.12.2006

Code: q_349p03

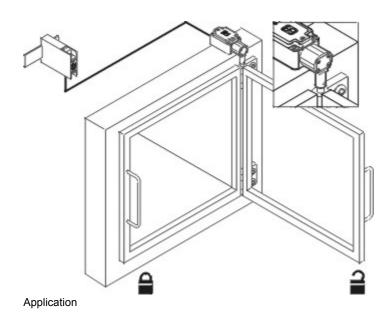
EAC certification (ru) 844 kB, 05.10.2015

Code: q_6037p17_ru

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 - 14:34:00h Kasbase 3.3.0.F.64I