Datasheet - TV10S 335-03Z

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 335-03Z

 Article number
 101179253

 EAN Code
 4030661311715

 eCl@ss
 27-27-26-01

Approval

Approval



Classification

Standards B10d Normally-closed contact (NC) Mission time notice EN ISO 13849-1 20.000.000 20 Years

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

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

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
253

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 contacts 0
Number of safety contacts 3
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

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

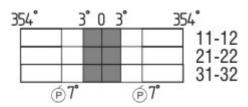




o-__-o Normally-open contact

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

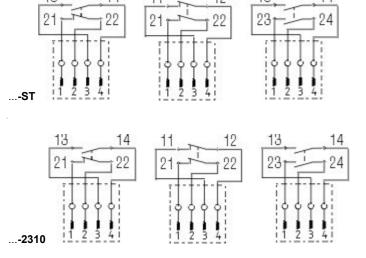
VÖ adjustable range of NC contact

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 335-03Z-NPT



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

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

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.

Ordering code

TV(1)S 335-(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 Normally open contact (NO) / 1 Opener (NC)

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

(3)

12

without Cable entry M20

NPT cable entry NPT 1/2"
ST M12 connector with A

T 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

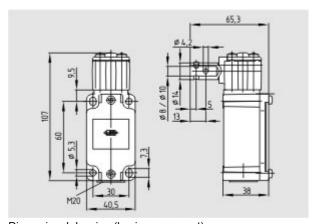
CCC certification (cn) 609 kB, 12.12.2006

Code: q_349p03

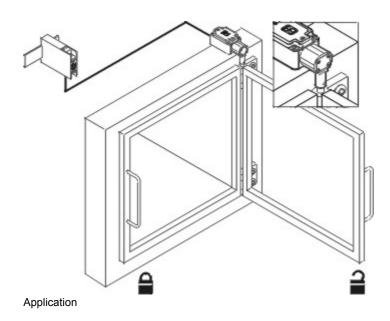
EAC certification (ru) 844 kB, 05.10.2015

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 - 14:34:03h Kasbase 3.3.0.F.64I