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Datasheet - TV8S 335-12Z

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





(Minor differences between the printed image and the original product may exist!) $% \left(\frac{\partial f_{i}}{\partial t_{i}} \right) = \int_{t_{i}}^{t_{i}} \left(\frac{\partial f_{i}}{\partial t_{i}} \right) \left(\frac{\partial f_{i}}{\partial$

Ordering details

| Product type description | |
|--------------------------|--|
| Article number | |
| EAN Code | |
| eCl@ss | |

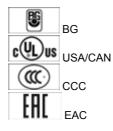
Approval

Approval



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

TV8S 335-12Z 101179250 4030661311685 27-27-26-01



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 335 |
|---|---------------------------|
| 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 | 280 |
| | |

Mechanical data

| Design of electrical connection | Screw connection |
|---------------------------------|---|
| Cable entry M 20 x 1.5 | 1 |
| 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 8 |
| 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 | 2 |
| 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

| 40.5 mm |
|---------|
| 107 mm |
| 65.3 mm |
| |

notice

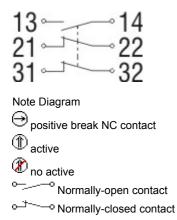
Setting assistance

Grub screw for location, shaft pre-drilled for pin

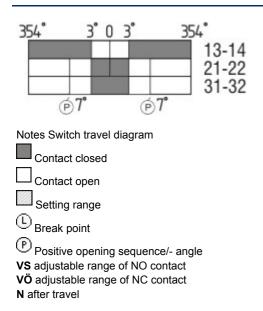
Universal joint available to compensate for axial displacement (only for shaft bore 10 mm)

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



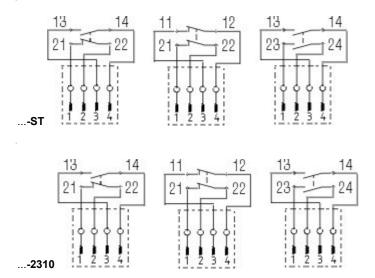
Switch travel diagram



Ordering suffix

The applicable ordering suffix is added at the end of the part number of the safety switch. Order example: TV8S 335-12Z**-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 U_{imp}: 0,8 kV Rated insulation voltage Ui: 50 V Operating current Ie: 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 | 1 Normally open contact (NO) / 1 Opener (NC) |
| 12 | 1 Normally open contact (NO) / 2 Opener (NC) |
| (3) | |
| 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

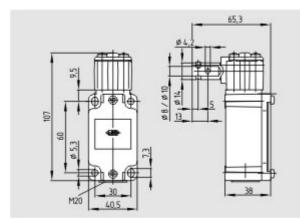
BG-test certificate (de) 160 kB, 09.12.2015 Code: z_tvsp01

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

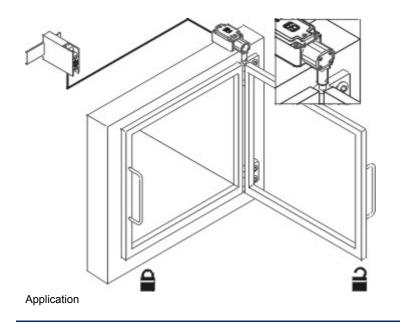
CCC certification (cn) 609 kB, 12.12.2006 Code: q_349p03

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 - 14:34:21h Kasbase 3.3.0.F.64I