## Datasheet - TV10S 335-02Z

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

## (8) 5СHmERSRL

X Preferred typ

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

## Ordering details

Product type description
Article number
EAN Code
eCl@ss

TV10S 335-02Z
101157473
4030661180304
27-27-26-01

## Approval

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## Classification

Standards
B10d Normally-closed contact (NC)
Mission time

EN ISO 13849-1
20.000.000

20 Years

## 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 | Aluminium |
| - Material of the contacts | Silver |
| Housing coating | painted |
| Weight | 260 |

## Mechanical data

Design of electrical connection
Cable entry M $20 \times 1.5$
Screw connection

Cable section

- Min. Cable section
- Max. Cable section

Mechanical life
Switching frequency
notice
Design of actuating element
Shaft bore
Positive break angle
Positive break torque

0,75
1
2.5
> 1.000.000 operations
max. $1000 / \mathrm{h}$
All indications about the cable section are including the conductor ferrules.
Other
Ø 10
$7^{\circ}$
60 Ncm

## Ambient conditions

| Ambient temperature | $-25^{\circ} \mathrm{C}$ |
| :--- | :--- |
| - Min. environmental temperature | $+70^{\circ} \mathrm{C}$ |
| - Max. environmental temperature | IP 67 |

## Electrical data

Design of control element
Switching principle
Number of auxiliary contacts
Number of safety contacts
Rated impulse withstand voltage Uimp
Rated insulation voltage $\mathrm{Ui}_{\mathrm{i}}$
Thermal test current lthe
Utilisation category

Max. fuse rating

Opener (NC)
Creep circuit element
0
2
6 kV
500 V
10 A
AC-15: $230 \mathrm{~V} / 4 \mathrm{~A}$,
DC-13: $24 \mathrm{~V} / 4 \mathrm{~A}$
6 A gG D-fuse

## ATEX

## 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 $90^{\circ}$ steps, 8 actuating planes are possible. A Torx T 10 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
$\Theta_{\text {positive break NC contact }}$
(1) active
(1) no active
--_- Normally-open contact

-     - Normally--closed contact


## Switch travel diagram



Notes Switch travel diagramContact closedContact openSetting range
(L)

Break point
(P) Positive opening sequence/- angle

VS adjustable range of NO contact
VÖ adjustable range of NC contact
$\mathbf{N}$ 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


M12 connector with B-coding
Rated impulse withstand voltage Uimp: $0,8 \mathrm{kV}$
Rated insulation voltage Ui: 50 V
Operating current le: AC-15: $50 \mathrm{~V} / 4 \mathrm{~A}$
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: $0,8 \mathrm{kV}$
Rated insulation voltage $\mathrm{Ui}: 50 \mathrm{~V}$
Operating current le: AC-15: $50 \mathrm{~V} / 4 \mathrm{~A}$
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
10
(2)

02
03
11
12
(3)
without
NPT
ST

ST-2310

G24
Shaft bore Ø 8 mm
Shaft bore $\varnothing 10 \mathrm{~mm}$

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

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.)
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) $285 \mathrm{kB}, 11.05 .2017$
Code: mrl_tvs335-355_fr

Operating instructions and Declaration of conformity (es) $281 \mathrm{kB}, 03.05 .2017$
Code: mrl_tvs335-355_es

Operating instructions and Declaration of conformity (jp) $420 \mathrm{kB}, 29.11 .2017$
Code: mrl_tvs335-355_jp

Operating instructions and Declaration of conformity (nl) $312 \mathrm{kB}, 05.07 .2018$
Code: mrl_tvs335-355_nl

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) $283 \mathrm{kB}, 10.05 .2017$
Code: mrl_tvs335-355_pt

Operating instructions and Declaration of conformity (pl) $313 \mathrm{kB}, 17.07 .2017$
Code: mrl_tvs335-355_pl

BG-test certificate (en) $166 \mathrm{kB}, 09.12 .2015$
Code: z_tvsp02

BG-test certificate (de) $160 \mathrm{kB}, 09.12 .2015$
Code: z_tvsp01

CCC certification (en) $577 \mathrm{kB}, 12.12 .2006$
Code: q_349p02

CCC certification (cn) $609 \mathrm{kB}, 12.12 .2006$
Code: q_349p03

EAC certification (ru) $844 \mathrm{kB}, 05.10 .2015$
Code: q_6037p17_ru

## Images



Dimensional drawing (basic component)

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