Datasheet - TESFA/CC/U

Safety switch for hinged guards / Hinge safety switch / TESF





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

- · Metal enclosure
- · Good resistance to oil and petroleum spirit
- For left or right hinged doors
- 141 mm x 115 mm x 21,5 mm
- Simple mounting, suitable for all conventional profile systems (30 ... 60 mm)
- 2 cable entries M 16 x 1.5

Ordering details

Product type description TESFA/CC/U Article number 101182703

EAN Code

eCl@ss 27-27-26-01

Approval

Approval



Classification

Standards EN ISO 13849-1

2.000.000 B10d Normally-closed contact (NC) B10d Normally open contact (NO) 1.000.000 Mission time 20 Years

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

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

TESF

Yes

Global Properties

Permanent light

Standards

EN 60947-5-1 / BG-GS-ET-15

Compliance with the Directives (Y/N) $\zeta \in$

Materials

- Material of the housings

- Material of the contacts

Enclosure color

Weight

zinc die-cast

Silver-nickel alloy 10

Black

840

Mechanical data

Design of electrical connection

Cable section

Min. Cable sectionMax. Cable section

Mechanical life

Switching frequency

notice
Opening angle

Positive break angle additional hinge (Y/N) Adjustable switching angle (Y/N)

Alignment aid (Y/N)
Mounting inside (Y/N)
Mounting outside (Y/N)

Spring pulley connection

0,5

> 1.000.000 operations

1200/h

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

180° 10° Yes Yes

Yes No No

Ambient conditions

Ambient temperature

Min. environmental temperatureMax. environmental temperature

Protection class

−25 °C

+65 °C IP65

Electrical data

Design of control element

Switching principle

Number of auxiliary contacts

Number of safety contacts
Rated impulse withstand voltage Uimp
Rated insulation voltage Ui

Thermal test current Ithe
Utilisation category

Cambadan datagary

Max. fuse rating
Switching of low voltages

Normally open contact (NO), Opener (NC)

Creep circuit element

2 2 2.5 kV 250 V 2.5 A

AC-15: 230 V / 2 A, DC-13: 24 V / 1 A 2 A gG D-fuse

1/5

ATEX

Explosion protection categories for gases

Explosion protected category for dusts

None

None

Dimensions

Dimensions of the sensor

- Width of sensor

- Length of sensor

- Height of sensor

141 mm

115 mm

21.5 mm

notice

Closed guard device = 0° in contact switch travel diagrams.

The factory-set switching angle is 3°.

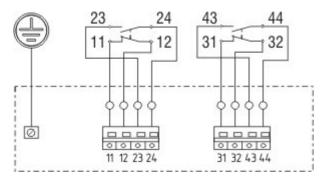
The positive break angle is 5°.

Until the limit of the mechanical life has been reached the angle can increase up to 8° under normal wear-out conditions.

Included in delivery

Adjusting tool is included in delivery additional hinge

Diagram



Note Diagram

opositive break NC contact

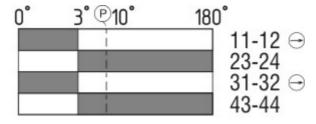
 $^{\scriptsize\textcircled{\scriptsize{1}}}_{\rm active}$

no active

°----- 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 code

(1)

withoutwithout Alignment aidAwith Alignment aid

(2)

without with additional hinge

S without additional hinge

(3)

without Screw connection

CC Ension spring connection

ST24 Connector 24 V

(4)

.1 male connector bottom
.2 Connector above

(5)

0 Mounted head-on180 Mounting inside

U for setting by the customer

Documents

Operating instructions and Declaration of conformity (de) 699 kB, 09.10.2018

Code: mrl_tesf_de

Operating instructions and Declaration of conformity (cn) 648 kB, 09.10.2018

Code: mrl_tesf_cn

Operating instructions and Declaration of conformity (en) 565 kB, 09.10.2018

Code: mrl_tesf_en

Operating instructions and Declaration of conformity (nl) 538 kB, 09.10.2018

Code: mrl_tesf_nl

Operating instructions and Declaration of conformity (fr) 551 kB, 09.10.2018

Code: mrl_tesf_fr

Operating instructions and Declaration of conformity (it) $549~\text{kB},\,09.10.2018$

Code: mrl_tesf_it

Operating instructions and Declaration of conformity (jp) 642 kB, 09.10.2018

Code: mrl_tesf_jp

Operating instructions and Declaration of conformity (da) 554 kB, 09.10.2018

Code: mrl_tesf_da

Operating instructions and Declaration of conformity (pl) 571 kB, 09.10.2018

Code: mrl_tesf_pl

Operating instructions and Declaration of conformity (es) 543 kB, 09.10.2018

Code: mrl_tesf_es

BG-test certificate (en) 173 kB, 07.03.2016

Code: z_tesp02

BG-test certificate (de) 184 kB, 07.03.2016

Code: z_tesp01

CCC certification (cn) 499 kB, 15.08.2016

Code: q_tesfp02

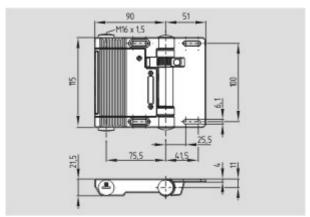
CCC certification (en) 500 kB, 15.08.2016

Code: q_tesfp01

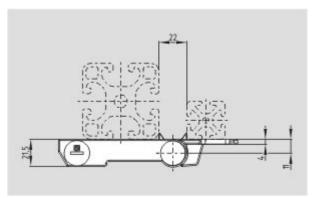
EAC certification (ru) 844 kB, 05.10.2015

Code: q_6037p17_ru

Images



Dimensional drawing (basic component)



Dimensional drawing (miscellaneous)

System components

Accessories

101180239 - Tooling reference TESF-14

