Datasheet - TESF/0

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
- \bullet Simple mounting, suitable for all conventional profile systems (30 \dots 60 mm)
- 2 cable entries M 16 x 1.5
- · with fixed switching angle

Ordering details

Product type description TESF/0
Article number 101182066

EAN Code

eCl@ss 27-27-26-01

Approval

Approval



Classification

Standards EN ISO 13849-1

B10d Normally-closed contact (NC) 2.000.000
B10d Normally open contact (NO) 1.000.000

Mission time 20 Years notice $\text{MTTF}_{\text{d}} = \frac{B_{10d}}{0.1 \times n_{0p}}$

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

Global Properties

Permanent light

Standards

Compliance with the Directives (Y/N) €€

Materials

TESF

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

Yes

- 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 section - Max. 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) Screw connection

0,5

> 1.000.000 operations

1200/h

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

180° 10°

Yes No

No No Yes

Ambient conditions

Ambient temperature

- Min. environmental temperature - Max. 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

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

141 mm - Height of sensor 115 mm - Length of sensor 21.5 mm

notice

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

The factory-set switching angle is 3°.

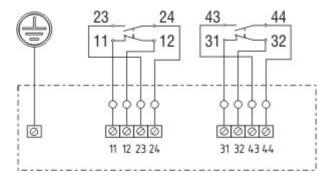
The positive break angle is 5°.

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

additional hinge

Diagram



Note Diagram

opositive break NC contact

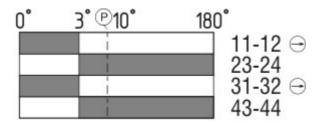
 $^{\scriptsize\textcircled{\scriptsize{1}}}$ active

no active

o-___o Normally-open contact

o--t---o Normally-closed contact

Switch travel diagram



Notes Switch travel diagram

Contact closed

Contact open

Setting range

 $^{\textcircled{L}}_{\text{Break point}}$

Positive opening sequence/- angle

VS adjustable range of NO contact

VÖ adjustable range of NC contact

N after travel

Ordering code

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 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

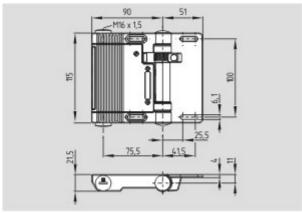
CCC certification (en) 500 kB, 15.08.2016

Code: q_tesfp01

EAC certification (ru) 844 kB, 05.10.2015

Code: q_6037p17_ru

Images



Dimensional drawing (basic component)

System components

Accessories

101180239 - Tooling reference TESF-14



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 - 14:32:15h Kasbase 3.3.0.F.64l