Datasheet - TESZ10/45

Safety switch for hinged guards / Hinge safety switch / TESZ





- Thermoplastic enclosure
- Double-insulated
- Good resistance to oil and petroleum spirit
- 111,5 mm x 92 mm x 36 mm
- 2 cable entries M 20 x 1.5
- Simple fitting, especially on 45 mm profiles

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

Ordering details

Product type description	TESZ10/45
Article number	101030523
EAN Code	

eCl@ss 27-27-26-01

Approval

Approval



Classification

Standards
B10d Normally-closed contact (NC)

B10d Normally open contact (NO)

Mission time

notice

EN ISO 13849-1

2.000.000

1.000.000

20 Years

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

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

Global Properties

Permanent light

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

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

Yes

TESZ

Materials

- Material of the housings

- Material of the contacts

- Material of the hinge Housing coating

Weight

Plastic, glass-fibre reinforced thermoplastic, self-extinguishing

Silver

Aluminium

None

456

Mechanical data

Design of electrical connection

Cable entry M 20 x 1.5

Cable section

- Min. Cable section

- Max. Cable section

Mechanical life

Switching frequency

notice

Positive break angle

Positive break force

additional hinge (Y/N)

mounting hinge (Y/N)

Screw connection

2

0,5

1.5

> 1.000.000 operations

120

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

10 1

Yes

Yes

Ambient conditions

Ambient temperature

- Min. environmental temperature

- Max. environmental temperature

Protection class

-25

+65

IP65

Electrical data

Design of control element

Switching principle

Number of auxiliary contacts Number of safety contacts

Rated impulse withstand voltage Rated insulation voltage

Thermal test current

Utilisation category

Max. fuse rating

Opener (NC)

Creep circuit element

0

2.5 250

2.5 A

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

2 A gG D-fuse

ATEX

Explosion protection categories for gases

Explosion protected category for dusts

None

None

Dimensions

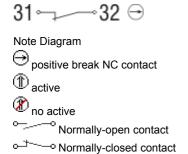
Dimensions of the sensor - Width of sensor 111.5 - Height of sensor 92 - Length of sensor 36 Suitable for mounting to profile systems 45

notice

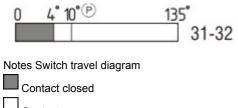
The additional hinge including mounting accessories is also available separately, part number Z 400

The opening angle has been set to 4° in factory.

Diagram



Switch travel diagram



┘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

TESZ(1)(2)(3)(4)/(5)(6)/(7)

(1)	
without	Material of the hinge Aluminium
X	Material of the hinge Stainless steel
(2)	
R	mechanische Wiederanlaufsperre
(3)	
10	1 Opener (NC)
102	1 Opener (NC) / 1 Normally open contact (NO)
110	2 Opener (NC)
1102	2 Opener (NC) / 1 Normally open contact (NO)
1110	3 Opener (NC)

(4)

without Screw connection

ST1 male connector bottom (M12, 8-pole)
ST2 Connector above (M12, 8-pole)

(5)

without with additional hinge

S without additional hinge

(6)

30 Suitable for mounting to profile systems 30 mm
35 Suitable for mounting to profile systems 35 mm
without Suitable for mounting to profile systems 40 mm
45 Suitable for mounting to profile systems 45 mm

(7)

withoutswitching angle Opener (NC) at 4°5°switching angle Opener (NC) at 5°8°switching angle Opener (NC) at 8°

Documents

Datasheet (de) 901 kB, 10.09.2012

Code: kteszp01

Datasheet (en) 1 MB, 10.09.2012

Code: gteszp02

Operating instructions and Declaration of conformity (de) 331 kB, 09.10.2018

Code: mrl_tesz_de

Operating instructions and Declaration of conformity (fr) 338 kB, 09.10.2018

Code: mrl_tesz_fr

Operating instructions and Declaration of conformity (fr) 469 kB, 26.07.2012

Code: mrl_tesz_fr

Operating instructions and Declaration of conformity (es) $336\ kB,\,09.10.2018$

Code: mrl_tesz_es

Operating instructions and Declaration of conformity (nl) 374 kB, 09.10.2018

Code: mrl_tesz_nl

Operating instructions and Declaration of conformity (en) 337 kB, 09.10.2018

Code: mrl_tesz_en

Operating instructions and Declaration of conformity (cn) 439 kB, 09.10.2018

Code: mrl_tesz_cn

Operating instructions and Declaration of conformity (it) 330 kB, 09.10.2018

Code: mrl_tesz_it

Operating instructions and Declaration of conformity (jp) 438 kB, 09.10.2018

Code: mrl_tesz_jp

Operating instructions and Declaration of conformity (pl) 371 kB, 09.10.2018

Code: mrl_tesz_pl

Operating instructions and Declaration of conformity (pt) 342 kB, 09.10.2018

Code: mrl_tesz_pt

BG-test certificate (de) 1 MB, 31.07.2018

Code: z_tesp04

BG-test certificate (en) 1 MB, 31.07.2018

Code: z_tesp05

CCC certification (cn) 755 kB, 02.08.2016

Code: q_teszp02

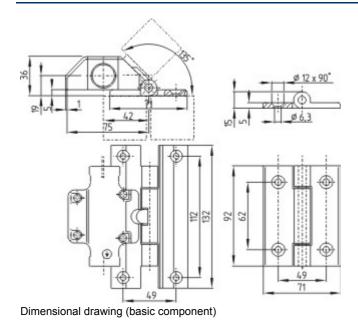
CCC certification (en) 762 kB, 02.08.2016

Code: q_teszp01

EAC certification (ru) 844 kB, 05.10.2015

Code: q_6037p17_ru

Images



System components

Accessories



101028411 - additional hinge TES/S/45