


Datasheet - TESZ102/S/30

Safety switch for hinged guards / Hinge safety switch / TESZ



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

- 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 30 mm profiles

Ordering details

| | |
|--------------------------|--------------|
| Product type description | TESZ102/S/30 |
| Article number | 101052908 |
| 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 | $MTTF_d = \frac{B_{10d}}{0,1 \times n_{op}}$ $n_{op} = \frac{d_{op} \times h_{op} \times 3600 \text{ s/h}}{t_{cycle}}$ |

Global Properties

| | |
|--|---|
| Permanent light | TESZ |
| Standards | IEC/EN 60947-5-1, BG-GS-ET-15 |
| Compliance with the Directives (Y/N)  | Yes |
| Materials | |
| - Material of the housings | Plastic, glass-fibre reinforced thermoplastic, self-extinguishing |
| - Material of the contacts | Silver |
| - Material of the hinge | Aluminium |
| Housing coating | None |
| Weight | 310 |

Mechanical data

| | |
|---------------------------------|---|
| Design of electrical connection | Screw connection |
| Cable entry M 20 x 1.5 | 2 |
| Cable section | |
| - Min. Cable section | 0,5 |
| - Max. Cable section | 1.5 |
| Mechanical life | > 1.000.000 operations |
| Switching frequency | 120 |
| notice | All indications about the cable section are including the conductor ferrules. |
| Positive break angle | 10 |
| Positive break force | 1 |
| additional hinge (Y/N) | No |
| mounting hinge (Y/N) | Yes |

Ambient conditions

| | |
|----------------------------------|------|
| Ambient temperature | |
| - Min. environmental temperature | -25 |
| - Max. environmental temperature | +65 |
| Protection class | IP65 |

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 | 1 |
| Rated impulse withstand voltage | 2.5 |
| Rated insulation voltage | 250 |
| Thermal test current | 2.5 A |
| Utilisation category | AC-15: 230 V / 2 A, DC-13: 24 V / 1 A |
| Max. fuse rating | 2 A gG D-fuse |

ATEX

| | |
|---|------|
| Explosion protection categories for gases | None |
| Explosion protected category for dusts | None |

Dimensions

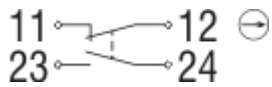
| | |
|--|-------|
| Dimensions of the sensor | |
| - Width of sensor | 111.5 |
| - Height of sensor | 92 |
| - Length of sensor | 36 |
| Suitable for mounting to profile systems | 30 |

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



Note Diagram

⊖ positive break NC contact

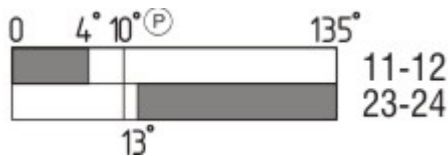
⬆ active

⬆ no active

⬆ Normally-open contact

⬆ Normally-closed contact

Switch travel diagram



Notes Switch travel diagram

■ Contact closed

□ Contact open

▨ Setting range

⊖ 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

X

Material of the hinge Aluminium

Material of the hinge Stainless steel

(2)

R

mechanische Wiederanlaufsperr

(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

ST1

Screw connection

ST2

male connector bottom (M12, 8-pole)

Connector above (M12, 8-pole)

(5)

without

S

with additional hinge

without additional hinge

(6)

30

Suitable for mounting to profile systems 30 mm

35

Suitable for mounting to profile systems 35 mm

without

45

(7)

without

5°

8°

Suitable for mounting to profile systems 40 mm

Suitable for mounting to profile systems 45 mm

switching angle Opener (NC) at 4°

switching angle Opener (NC) at 5°

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

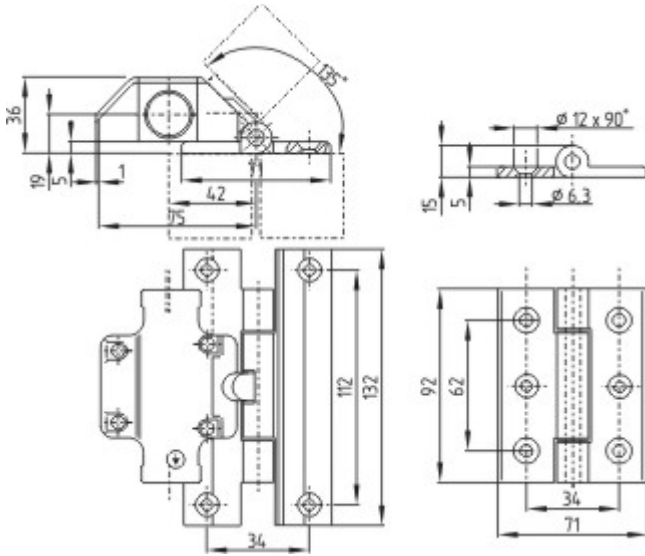
CCC certification (en) 762 kB, 02.08.2016

Code: q_teszp01

EAC certification (ru) 844 kB, 05.10.2015

Code: q_6037p17_ru

Images



Dimensional drawing (basic component)

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

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