Datasheet - TV8S 521-02/20Z

Safety switch for hinged guards / Hinge safety switch / TV8S 521





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

- · Metal enclosure
- · Good resistance to oil and petroleum spirit
- · Mounting independent of hinge
- 92 mm x 81,5 mm x 27 mm
- Variable mounting on hinged side
- Rail-mounting possible with slot nuts
- 2-channel, alternating monitoring
- Actuator shaft can be turned 360°
- · For left or right hinged doors
- Push-in system (toothed shaft)
- 2 cable entries M 16 x 1.5
- 2 switches in one enclosure

Ordering details

 Product type description
 TV8S 521-02/20Z

 Article number
 101138422

 EAN Code
 4030661281278

When ordering, first the desired safety switch should be selected and then the appropriate universal joint; for universal joint K1, additionally the corresponding F or L hinge

eCl@ss 27-27-26-01

Approval

Approval



Classification

Standards

B10d Normally-closed contact (NC)

Mission time

notice

EN ISO 13849-1 20.000.000

20 Years

ATTF_d = B_{10d}

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

Global Properties

Permanent light

TV8S 521

Standards EN 60947-5-1, BG-GS-ET-15

Compliance with the Directives (Y/N) € €

Materials

- Material of the housings - Material of the contacts

Housing coating Weight

Yes

Aluminium Silver painted 268

Mechanical data

Design of electrical connection

Cable entry M 16 x 1.5

Cable section

- Min. Cable section - Max. Cable section

Mechanical life

Switching frequency

notice

Shaft bore

notice

Positive break angle Positive break torque Screw connection

2

1 x 0,75 mm² 1 x 1.5 mm²

> 1.000.000 operations

max. 1000 /h

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

Inner toothing 10 mm

14 ° 8 Ncm

Ambient conditions

Ambient temperature

- Min. environmental temperature - Max. environmental temperature

Protection class

-25 °C

+70 °C

IP67

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

Normally open contact (NO), Opener (NC)

Creep circuit element

0 (S1), 2 (S2) 2 (S1), 0 (S2)

4 kV 250 V 10 A

AC-15: 230 V / 4 A. DC-13: 24 V / 1 A

6 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

- Height of sensor - Length of sensor 92 mm

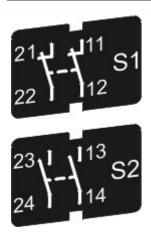
81.5 mm

27 mm

notice

Universal joint to compensate axial displacement Switching point subsequently adjustable using hinge L

Diagram



Note Diagram

opositive break NC contact

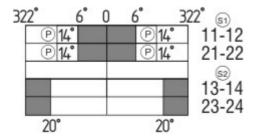
 $^{\textcircled{1}}$ active

no active

o-__- Normally-open contact

o-t---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

TV8S 521-(1)

(1)

11/11

Switch insert 1: 2 Opener (NC)

Switch insert 1: 1 Normally open contact (NO) / 1 Opener (NC) Switch insert 2: 1 Normally open contact (NO) / 1 Opener (NC)

Switch insert 2: 2 Normally open contact (NO)

Documents

Operating instructions and Declaration of conformity (nl) 436 kB, 11.07.2018

Code: mrl_tv8s521_nl

Operating instructions and Declaration of conformity (es) 440 kB, 21.12.2017

Code: mrl_tv8s521_es

Operating instructions and Declaration of conformity (da) 397 kB, 18.06.2013

Code: mrl_tv8s521_da

Operating instructions and Declaration of conformity (en) 440 kB, 14.11.2017

Code: mrl_tv8s521_en

Operating instructions and Declaration of conformity (de) 411 kB, 14.11.2017

Code: mrl_tv8s521_de

Operating instructions and Declaration of conformity (it) 433 kB, 21.12.2017

Code: mrl_tv8s521_it

Operating instructions and Declaration of conformity (pt) 439 kB, 31.01.2018

Code: mrl_tv8s521_pt

Operating instructions and Declaration of conformity (pl) 471 kB, 09.05.2018

Code: mrl_tv8s521_pl

Operating instructions and Declaration of conformity (jp) 925 kB, 22.09.2011

Code: mrl_tv8s521_jp

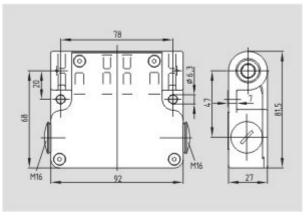
Operating instructions and Declaration of conformity (fr) 442 kB, 16.01.2018

Code: mrl_tv8s521_fr

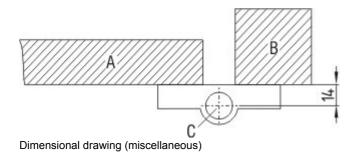
EAC certification (ru) 844 kB, 05.10.2015

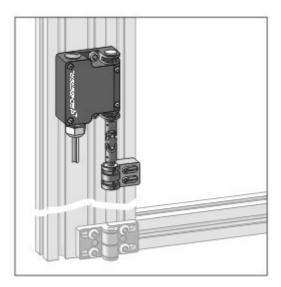
Code: q_6037p17_ru

Images



Dimensional drawing (basic component)

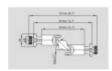




Application

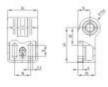
System components

Accessories

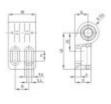


101138412 - UNIVERSAL JOINT K1

- Factory-mounted pins
- Universal joint to compensate axial displacement



101138413 - adjustable hinge L



101138414 - Fixed hinge F