

## TV8S521-11/11Z



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

### Data

#### Ordering data

Product type description	TV8S 521-11/11Z
Article number (order number)	101138421
EAN (European Article Number)	4030661281261
eCl@ss number, Version 9.0	27-27-06-09

Note (Ordering data) 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

#### Certifications

Certificates	cULus EAC
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#### General data

Product name	TV8S 521
Enclosure material	Aluminium
Enclosure coating material	Painted
Material of the contacts, electrical	Silver

Gross weight 274.000 g

### General data - Features

Number of auxiliary contacts 2

Number of safety contacts 1

### Safety appraisal

Standards BG-GS-ET-15  
ISO 13849-1  
EN 60947-5-1

Mission Time 20 Year(s)

### Safety appraisal - Safety outputs

B10d Normally-closed contact (NC) 20,000,000 Operations

### Mechanical data

Mechanical life, minimum 1,000,000 Operations

Positive break angle 14 °

Mounting hole for the Shaft 10 mm

Note (Mounting hole for the shaft) Inner tothing

Positive break torque 8 Nm

### Mechanical data - Connection technique

Terminal Connector Screw connection

Cable entry 2 x M16 x 1.5

Cable section, minimum 1 x 0.75 mm<sup>2</sup>

Cable section, maximum 1 x 1.5 mm<sup>2</sup>

Note (Cable section) All indications about the cable section are including the conductor ferrules.

### Mechanical data - Dimensions

Height of sensor 81.5 mm

Length of sensor 27 mm

Width of sensor 92 mm

### Ambient conditions

Protection class IP67

Ambient temperature, minimum -25 °C

Ambient temperature, maximum +70 °C

### Ambient conditions - Insulation value

Rated impulse withstand voltage 4 kV

### Electrical data

Thermal test current 10 A  
Utilisation category AC-15 230 VAC  
Utilisation category AC-15 4 A  
Utilisation category DC-13 24 VDC  
Utilisation category DC-13 1 A  
Switching element NO contact, NC contact  
Switching principle Creep circuit element  
Switching frequency 1,000 /h

### Notes

Note (General) Universal joint to compensate axial displacement  
Switching point subsequently adjustable using hinge L

### Ordering code

Product type description:

TV8S 521-(1)

(1)

**11/11** Switch insert 1: 1 NO/1 NC > switch insert 2: 1 NO/1 NC

**02/20** Switch insert 1: 2 NC > switch insert 2: 2 NO

### Pictures

#### Product picture (catalogue individual photo)



ID: ktv8sf02

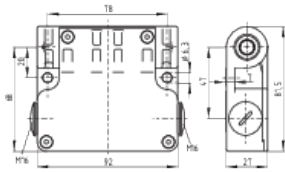
| 52,8 kB | .png | 74.083 x 65.264 mm - 210 x 185

Pixel - 72 dpi

| 544,7 kB | .jpg | 283.281 x 250.119 mm - 803 x 709

Pixel - 72 dpi

## Dimensional drawing basic component



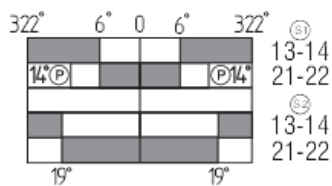
ID: 1tvs5g04

| 115,2 kB | .jpg | 352.778 x 247.297 mm - 1000 x 701 Pixel - 72 dpi

| 48,7 kB | .cdr |

| 9,9 kB | .png | 74.083 x 51.858 mm - 210 x 147 Pixel - 72 dpi

## Switch travel diagram



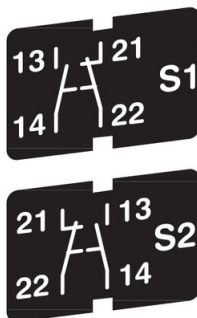
ID: ktvs5s03

| 21,7 kB | .cdr |

| 2,8 kB | .png | 74.083 x 40.569 mm - 210 x 115 Pixel - 72 dpi

| 99,8 kB | .jpg | 352.778 x 193.322 mm - 1000 x 548 Pixel - 72 dpi

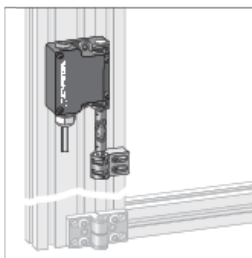
## Diagram



ID: ktvs5k02

| 11,6 kB | .cdr |

## Operating principle



ID: ktvs5a01

| 11,6 kB | .png | 74.083 x 68.792 mm - 210 x 195 Pixel - 72 dpi

| 146,5 kB | .jpg | 352.778 x 328.436 mm - 1000 x 931 Pixel - 72 dpi

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The details and data referred to have been carefully checked. Images may diverge from original. Further technical data can be found in the manual. Technical amendments and errors possible.

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