



## EX-TV10S 335-11Z-3D

- 1 Cable entry M 20 x 1.5
- Ex-Zone 22
- Metal enclosure
- Actuator shaft can be turned 360°
- Actuator heads can be repositioned by 4 x 90°
- 40,5 mm x 107 mm x 65,3 mm
- Good resistance to oil and petroleum spirit
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## Data


### Ordering data

Product type description	EX-TV10S 335-11Z-3D
Article number (order number)	101193005
EAN (European Article Number)	4030661354705
eCl@ss number, version 12.0	27-27-06-09
eCl@ss number, version 11.0	27-27-06-09
eCl@ss number, version 9.0	27-27-06-09
ETIM number, version 7.0	EC002591
ETIM number, version 6.0	EC002591

### Explosion protection

Explosion protection: regulations	EN IEC 60079-0 EN 60079-31
Explosion protection category	3D

Explosion protection  
designation

 II 3D Ex tc IIIC T90°C Dc X

## General data

Standards	BG-GS-ET-15 EN IEC 60947-5-1
Housing material	Metal, zinc die-cast
Housing coating material	painted
Material of the actuator	Stainless steel
Gross weight	379 g

## General data - Features

Safety functions	Yes
Number of auxiliary contacts	1
Number of safety contacts	1

## Safety classification

Standards	EN ISO 13849-1
Mission time	20 Year(s)

## Safety classification - Safety outputs

B <sub>10D</sub> Normally-closed contact (NC)	20,000,000 Operations
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## Mechanical data

Actuating element	Other
Mechanical life, minimum	1,000,000 Operations
Mounting hole for the Shaft	10 mm
Impact energy, maximum	7 J

Positive break travel 10.7 mm

Actuating speed, maximum 1 m/s

### Mechanical data - Connection technique

Termination	Screw terminals M20 x 1.5
Cable cross-section of the cable glands, minimum	7 mm
Cable cross-section of the cable glands, maximum	12 mm
Cable section, minimum	1 mm <sup>2</sup>
Cable section, maximum	2.5 mm <sup>2</sup>
Note (Cable section)	All indications including the conductor ferrules.
Wire cross-section	13 AWG

### Mechanical data - Dimensions

Length of sensor	65.3 mm
Width of sensor	40.5 mm
Height of sensor	107 mm

### Ambient conditions

Degree of protection	IP65
Ambient temperature, maximum (Cable section 1mm <sup>2</sup> )	+50 °C
Ambient temperature, maximum (Cable section 2.5mm <sup>2</sup> )	+55 °C

### Ambient conditions - Insulation values

Rated insulation voltage $U_i$	500 V
Rated impulse withstand voltage $U_{imp}$	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	4 A
Switching element	NO contact, NC contact
Switching principle	Slow action
Bounce duration, maximum	3 ms
Switching frequency	1,800 /h
Material of the contacts, electrical	Silver

## Scope of delivery

Scope of delivery	Ex-certified screwed cable gland
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## Note

Note (General)	<p>By turning the head in 90° steps, 8 actuating planes are possible. A Torx T10 screwdriver is required for this purpose. Even when the screw is removed, the head is self-retaining. The switch can still not be tampered.</p> <p>Adjustment tool: locking screw to fix, shaft pre-drilled to pin</p> <p>Universal joint available to compensate for axial displacement (only for shaft bore 10 mm)</p>
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## Ordering code

Product type description:  
EX-TV(1)S 335-(2)Z-(3)-DG

(1)

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**8** Shaft bore Ø 8 mm

**10** Shaft bore Ø 10 mm

(2)

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<b>02</b>	2 NC contact
<b>03</b>	3 NC contact
<b>11</b>	1 NO contacts/1 NC contact
<b>12</b>	1 NO contact/2 NC contacts

(3)

**M20** Cable entry M20

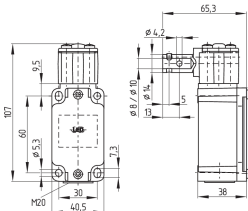
## Pictures

### Product picture (catalogue individual photo)



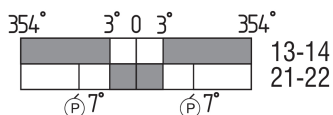
ID: ktv33f01  
 | 476.9 kB | .jpg | 193.322 x 304.8 mm - 548 x 864 px - 72 dpi  
 | 75.9 kB | .png | 74.083 x 116.769 mm - 210 x 331 px - 72 dpi  
 | 68.2 kB | .jpg | 78.317 x 123.472 mm - 222 x 350 px - 72 dpi

### Dimensional drawing basic component



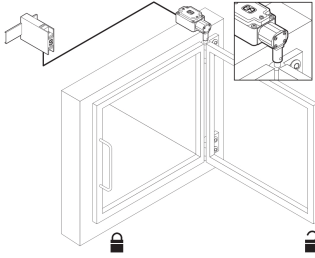
ID: 1tvs3g01  
 | 38.8 kB | .cdr |  
 | 10.4 kB | .png | 74.083 x 51.858 mm - 210 x 147 px - 72 dpi  
 | 127.2 kB | .jpg | 352.778 x 247.297 mm - 1000 x 701 px - 72 dpi

### Switch travel diagram



ID: ktvs3s02  
 | 20.2 kB | .cdr |  
 | 2.0 kB | .png | 74.083 x 25.4 mm - 210 x 72 px - 72 dpi  
 | 59.1 kB | .jpg | 352.778 x 120.297 mm - 1000 x 341 px - 72 dpi

### Sample application illustration product



ID: pssp-a19

| 435.4 kB | .cdr |

| 16.6 kB | .png | 74.083 x 57.856 mm - 210 x 164 px - 72 dpi

| 161.7 kB | .jpg | 352.778 x 275.872 mm - 1000 x 782 px - 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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