



## EX-TS335-02Y

- Ex-Zone 1 and 21
- Metal enclosure
- Good resistance to oil and petroleum spirit
- 40,5 mm x 76 mm x 38 mm
- Actuator heads can be repositioned by 4 x 90°
- Mounting details to EN 50041
- 1 Cable entry M 20 x 1.5
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## Data

### Ordering data

Product type description	EX-TS335-02Y
Article number (order number)	101211815
EAN (European Article Number)	4030661448732
eCl@ss number, version 12.0	27-27-26-01
eCl@ss number, version 11.0	27-27-26-01
eCl@ss number, version 9.0	27-27-26-01
ETIM number, version 7.0	EC000030
ETIM number, version 6.0	EC000030

### Approvals - Standards

Certificates	cULus IEC Ex CCC CCC EX DEKRA
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### Explosion protection

Explosion protection: regulations	EN IEC 60079-0 EN 60079-1 EN 60079-7 EN 60079-31
Explosion protection zones	1 21
Explosion protection category	2G 2D
Explosion protection designation	⊕ II 2G Ex d e IIC T6 Gb ⊕ II 2D Ex tb IIIC T80°C Db

## General data

Standards	BG-GS-ET-15 EN IEC 60947-5-1
Housing construction form	Norm construction design
Actuator type to EN 50041	B
Housing material	Metal, zinc die-cast
Housing coating material	Painted
Gross weight	320 g

## General data - Features

Safety functions	Yes
Number of safety contacts	2

## 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	Plunger
Mechanical life, minimum	1,000,000 Operations
Impact energy, maximum	7 J
Actuating force, minimum	17 N
Actuating speed, maximum	1 m/s
Note Bounce duration	Bounce duration in accordance with actuating speed
Note (Switchover time)	Switchover time in accordance with actuating speed

### 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	38 mm
Width of sensor	40.5 mm
Height of sensor	103.5 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 <sub>i</sub>	250 VAC 500 V
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Rated impulse withstand voltage  $U_{imp}$  4 kV

## Electrical data

Thermal test current	5 A
Utilisation category AC-15	230 VAC
Utilisation category DC-13	24 VDC
Switching element	Opener (NC)
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

## Ordering code

Product type description:  
EX-T(1) 335-(2)Y(3)-(4)-(5)

(1)

<b>S</b>	Plunger S
<b>R</b>	Roller plunger R
<b>H</b>	Roller lever H
<b>10H</b>	Rod lever 10H
<b>7H</b>	Roller lever 7H
<b>7H-2138</b>	Roller lever 7H for position switches with safety function
<b>1K</b>	Offset roller lever 1K
<b>3K</b>	Angle roller lever 3K

(2)

<b>11</b>	1 NO contacts/1 NC contact
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<b>02</b>	2 NC contact
<b>20</b>	2 NO contacts (not suitable for safety applications)
(3)	
<b>UE</b>	Slow action with overlapping contacts
<b>without</b>	Slow action with staggered contacts
(4)	
<b>2138</b>	Roller lever 7H for position switches with safety function
(5)	
<b>RMS</b>	Roller made from brass

## Pictures

### Product picture (catalogue individual photo)



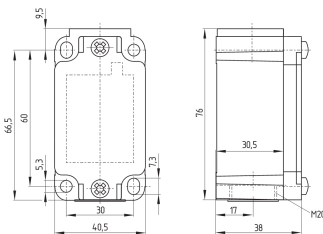
ID: k335sf01

| 939.8 kB | .jpg | 352.778 x 759.178 mm - 1000 x 2152 px - 72 dpi

| 87.8 kB | .png | 74.083 x 159.456 mm - 210 x 452 px - 72 dpi

| 33.8 kB | .jpg | 57.503 x 123.472 mm - 163 x 350 px - 72 dpi

### Dimensional drawing basic component



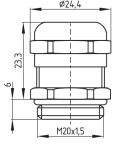
ID: k-335g01

| 27.9 kB | .cdr |

| 4.1 kB | .png | 74.083 x 52.211 mm - 210 x 148 px - 72 dpi

| 126.8 kB | .jpg | 352.778 x 248.708 mm - 1000 x 705 px - 72 dpi

### Dimensional drawing basic component

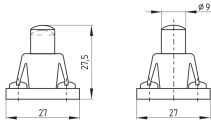


ID: 1xzm1g07

| 2.5 kB | .png | 74.083 x 51.153 mm - 210 x 145 px - 72 dpi

| 46.3 kB | .jpg | 352.778 x 243.769 mm - 1000 x 691 px - 72 dpi

## Dimensional drawing actuator



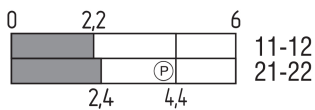
ID: 1s336g01

| 48.9 kB | .cdr |

| 2.7 kB | .png | 74.083 x 52.211 mm - 210 x 148 px - 72 dpi

| 52.6 kB | .jpg | 352.778 x 248.003 mm - 1000 x 703 px - 72 dpi

## Switch travel diagram



ID: ks335s03

| 20.5 kB | .cdr |

| 1.7 kB | .png | 74.083 x 22.931 mm - 210 x 65 px - 72 dpi

| 44.0 kB | .jpg | 352.778 x 109.714 mm - 1000 x 311 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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