# DATASHEET



## EX-T4V10H335-02Y

## Data

### Ordering data

| | |
|---|---|
| Product type description | EX-T4V10H335-02Y |
| Article number (order number) | 101212061 |
| EAN (European Article Number) | 4030661448688 |
| eCl@ss number, version 12.0 | 27-27-06-01 |
| eCl@ss number, version 11.0 | 27-27-06-01 |
| eCl@ss number, version 9.0 | 27-27-06-01 |
| ETIM number, version 7.0 | EC000030 |
| ETIM number, version 6.0 | EC000030 |

### Approvals - Standards

| | |
|---|---|
| Certificates | cULus<br>IEC Ex<br>CCC<br>CCC EX<br>DEKRA |

## Explosion protection

| | |
|---|---|
| Explosion protection: regulations | EN IEC 60079-0<br>EN 60079-1<br>EN 60079-7<br>EN 60079-31 |
| Explosion protection zones | 1<br>21 |
| Explosion protection category | 2G<br>2D |
| Explosion protection designation | II 2G Ex d e IIC T6 Gb<br>II 2D Ex tb IIIC T80°C Db |
| Manufacturer declaration | Additional simple electrical apparatus (Zone 0 and 20) |

## General data

| | |
|---|---|
| Standards | BG-GS-ET-15<br>EN IEC 60947-5-1 |
| Housing construction form | Norm construction design |
| Housing material | Metal, zinc die-cast |
| Housing coating material | painted |
| Lever material | Metal film |
| Material of the rod | Plastic |
| Gross weight | 400 g |

## General data - Features

| | |
|---|---|
| Number of safety contacts | 2 |

### Safety classification

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

## Safety classification - Safety outputs

| | |
|---|---|
| $B_{10D}$ Normally-closed contact (NC) | 20,000,000 Operations |

## Mechanical data

| | |
|---|---|
| Actuating element | Rod lever |
| Mechanical life, minimum | 1,000,000 Operations |
| Impact energy, maximum | 7 J |
| Actuating speed, maximum | 1 m/s |
| Note (Actuating speed) | Actuating speed with actuating angle 30° to switch axis |
| Note (Switchover time) | Switchover time in accordance with actuating speed |
| Actuating torque, minimum | 0.3 Nm |

## 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 mm² |
| Cable section, maximum | 2.5 mm² |
| Note (Cable section) | All indications including the conductor ferrules. |
| Wire cross-section | 13 AWG |

## Mechanical data - Dimensions

| | |
|---|---|
| Length x Width x Height | Height of sensor: 111.5 mm (without rod) |
| Length of sensor | 38 mm |
| Width of sensor | 40.5 mm |

## Ambient conditions

| | |
|---|---|
| Degree of protection | IP65 |
| Ambient temperature, maximum (Cable section 1mm2) | +50 °C |
| Ambient temperature, maximum (Cable section 2.5mm2) | +55 °C |

## Ambient conditions - Insulation values

| | |
|---|---|
| Rated insulation voltage $U_i$ | 250 VAC<br>500 V |
| 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)

| | |
|---|---|
| **S** | Plunger S |
| **R** | Roller plunger R |

| | |
|---|---|
| **H** | Roller lever H |
| **10H** | Rod lever 10H |
| **7H** | Roller lever 7H |
| **7H-2138** | Roller lever 7H for position switches with safety function |
| **1K** | Offset roller lever 1K |
| **3K** | Angle roller lever 3K |

(2)

| | |
|---|---|
| **11** | 1 NO contacts/1 NC contact |
| **02** | 2 NC contact |
| **20** | 2 NO contacts (not suitable for safety applications) |

(3)

| | |
|---|---|
| **UE** | Slow action with overlapping contacts |
| **without** | Slow action with staggered contacts |

(4)

| | |
|---|---|
| **2138** | Roller lever 7H for position switches with safety function |

(5)

| | |
|---|---|
| **RMS** | Roller made from brass |

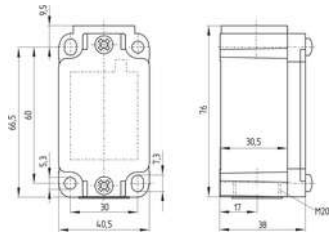
## Pictures

### Product picture (catalogue individual photo)



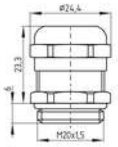
ID: k335hf03
| 1.0 MB | .jpg | 352.778 x 1124.303 mm - 1000 x 3187 px - 72 dpi
| 96.5 kB | .png | 74.083 x 236.008 mm - 210 x 669 px - 72 dpi
| 20.7 kB | .jpg | 38.806 x 123.472 mm - 110 x 350 px - 72 dpi

## Dimensional drawing basic component



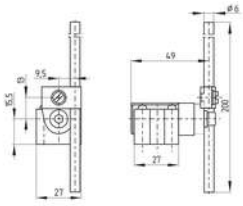
ID: k-335g01
| 27.9 kB | .cdr |
| 4.1 kB | .png | 74.083 x 52.211 mm - 210 x 148 px - 72 dpi
| 126.8 kB | .jpg | 352.778 x 248.708 mm - 1000 x 705 px - 72 dpi

## Dimensional drawing basic component



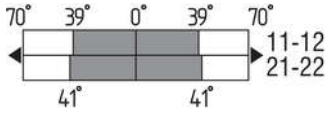
ID: 1xzm1g07
| 2.5 kB | .png | 74.083 x 51.153 mm - 210 x 145 px - 72 dpi
| 46.3 kB | .jpg | 352.778 x 243.769 mm - 1000 x 691 px - 72 dpi

## Dimensional drawing actuator



ID: 1h336g03
| 72.8 kB | .cdr |
| 3.8 kB | .png | 74.083 x 52.211 mm - 210 x 148 px - 72 dpi
| 84.2 kB | .jpg | 352.778 x 248.003 mm - 1000 x 703 px - 72 dpi

## Switch travel diagram




ID: kh335s32
| 21.0 kB | .cdr |
| 1.8 kB | .png | 74.083 x 23.989 mm - 210 x 68 px - 72 dpi
| 52.5 kB | .jpg | 352.778 x 114.653 mm - 1000 x 325 px - 72 dpi