

## Datasheet - T4VH 336-11z

Position switch / 336 Thermoplastic enclosure - EN 50041 with Actuator / 336 Roller lever H



Preferred typ



- Lever angle adjustable in 10° steps
- Design to EN 50041
- Thermoplastic enclosure
- Double-insulated
- Good resistance to oil and petroleum spirit
- Wide range of alternative actuators
- Actuator heads can be repositioned by 4 x 90°
- 1 Cable entry M 20 x 1.5

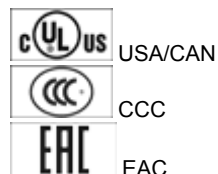
(Minor differences between the printed image and the original product may exist!)

### Ordering details

|                          |               |
|--------------------------|---------------|
| Product type description | T4VH 336-11Z  |
| Article number           | 101158892     |
| EAN Code                 | 4030661182995 |
| eCl@ss                   | 27-27-26-01   |

### Approval


Approval



### Classification

|                                   |  |
|-----------------------------------|--|
| Standards                         | EN ISO 13849-1   |
| B10d Normally-closed contact (NC) | 20.000.000   |
| Mission time                      | 20 Years   |
| notice                            | $MTTF_d = \frac{B_{10d}}{0,1 \times n_{op}}$ $n_{op} = \frac{d_{op} \times h_{cp} \times 3600 \text{ s/h}}{t_{cycle}}$ |

### Global Properties

|  |   |
|--|---|
| Permanent light  | 336 Rollenschwenkhebel H  |
| Standards  | EN 60947-5-1, BG-GS-ET-15   |
| Compliance with the Directives (Y/N)  | Yes   |
| Suitable for safety functions (Y/N)  | Yes   |
| Actuator type  | A to EN 50041   |
| Materials  |   |
| - Material of the housings   | Plastic, glass-fibre reinforced thermoplastic, self-extinguishing |
| - Lever material   | Metal film  |
| - Roller material  | Plastic   |
| - Material of the contacts   | Silver  |
| Housing coating  | None  |
| Housing construction form  | Norm construction design  |
| Weight   | 160   |


### Mechanical data

|   |   |
|---|---|
| Design of electrical connection                         | Screw connection  |
| Cable section   |   |
| - Min. Cable section                                    | 0,75  |
| - Max. Cable section                                    | 2.5   |
| Mechanical life   | 30.000.000 operations   |
| Switching frequency                                     | max. 5000 /h  |
| notice  | All indications about the cable section are including the conductor ferrules. |
| Design of actuating element                             | Roller lever  |
| actuating torque  | min. 31 Ncm   |
| Bounce duration   | < 2   |
| Switchover time   | in accordance with actuating speed  |
| Actuating speed with actuating angle 30° to switch axis |   |
| - Min. Actuating speed                                  |   |
| - Max. Actuating speed                                  | 2.5 m/s   |

### Ambient conditions

|                                  |        |
|----------------------------------|--------|
| Ambient temperature              |        |
| - Min. environmental temperature | -30 °C |
| - Max. environmental temperature | +80 °C |
| Protection class                 | IP67   |

### Electrical data

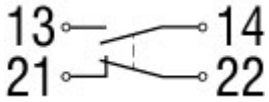
|   |  |
|---|--|
| Design of control element   | Normally open contact (NO), Opener (NC)  |
| Switching principle   | Creep circuit element                    |
| - positive break NC contact  |  |
| Number of auxiliary contacts  | 1  |
| Number of safety contacts   | 1  |
| Rated impulse withstand voltage $U_{imp}$   | 6 kV                                     |
| Rated insulation voltage $U_i$  | 500 V                                    |
| Thermal test current $I_{the}$  | 10 A                                     |
| Utilisation category  | AC-15: 230 V / 4 A,<br>DC-13: 24 V / 4 A |
| Required rated short-circuit current  | 1000 A                                   |
| Max. fuse rating  | 6 A gG D-fuse                            |

## Dimensions

Dimensions of the sensor

|                    |          |
|--------------------|----------|
| - Width of sensor  | 40.5 mm  |
| - Height of sensor | 129.5 mm |
| - Length of sensor | 60.5 mm  |

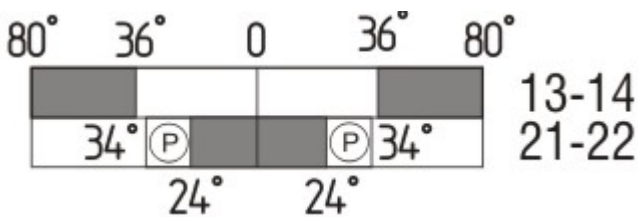
## Diagram



Note Diagram

- positive break NC contact
- active
- no active
- Normally-open contact
- Normally-closed contact

## Switch travel diagram



Notes Switch travel diagram

- Contact closed
- Contact open
- Setting range
- Break point
- Positive opening sequence/- angle
- VS** adjustable range of NO contact
- VÖ** adjustable range of NC contact
- N** after travel

## Ordering suffix

The applicable ordering suffix is added at the end of the part number of the safety switch.

Order example: T4VH 336-11z-NPT

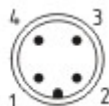
...-NPT

Cable entry NPT 1/2"

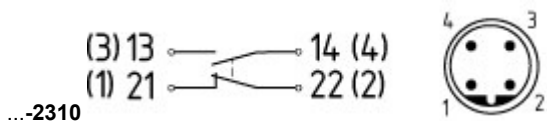
...-1637

0,3 µm gold-plated contacts

...-ST



M12 connector with A-coding  
 Rated impulse withstand voltage  $U_{imp}$ : 4 kV  
 Rated insulation voltage  $U_i$ : 250 V  
 Rated operating voltage  $U_e$ : 230 V  
 Operating current  $I_e$ : 4 A



M12 connector with B-coding  
 Rated impulse withstand voltage  $U_{imp}$ : 4 kV  
 Rated insulation voltage  $U_i$ : 250 V  
 Rated operating voltage  $U_e$ : 230 V  
 Operating current  $I_e$ : 4 A

## Ordering code

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(1)(2) 336-(3)Z(4)-(5)-(6)-(7)

(1)

Z Snap action

T Slow action

(2)

S Plunger S

R Roller plunger R

H Roller lever H

10H Rod lever 10H

7H Roller lever 7H

1K Offset roller lever 1K

3K Angle roller lever 3K

(3)

11 1 Normally open contact (NO) / 1 Opener (NC)

02 2 Opener (NC)

20 2 Normally open contact (NO), (Switch with 2 NO contacts are not for security tasks)

01/01 1 Opener (NC) left / 1 Opener (NC) right

(4)

H Slow action with staggered contacts

UE Slow action with overlapping contacts

(5)

without Cable entry M20

NPT cable entry NPT 1/2"

ST M12 connector with A-coding

ST-2310 M12 connector with B-coding

(6)

2138 Roller lever 7H for Position switches with safety function

(7)

1637 gold-plated contacts

## Documents

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**Operating instructions and Declaration of conformity** (de) 157 kB, 18.06.2018

Code: mrlk\_zt332-335-336-355\_de

**Operating instructions and Declaration of conformity** (nl) 162 kB, 27.06.2018

Code: mrlk\_zt332-335-336-355\_nl

**Operating instructions and Declaration of conformity** (it) 162 kB, 27.06.2018

Code: mrlk\_zt332-335-336-355\_it

**Operating instructions and Declaration of conformity** (pt) 163 kB, 27.06.2018

Code: mrlk\_zt332-335-336-355\_pt

**Operating instructions and Declaration of conformity (pl)** 198 kB, 27.06.2018

Code: mrlk\_zt332-335-336-355\_pl

**Operating instructions and Declaration of conformity (en)** 160 kB, 18.06.2018

Code: mrlk\_zt332-335-336-355\_en

**Operating instructions and Declaration of conformity (fr)** 164 kB, 27.06.2018

Code: mrlk\_zt332-335-336-355\_fr

**Declaration of conformity (es)** 91 kB, 18.06.2018

Code: KAS\_konfi\_nsr\_zt2xx-3xx\_es

**Declaration of conformity (pl)** 130 kB, 18.06.2018

Code: KAS\_konfi\_nsr\_zt2xx-3xx\_pl

**Declaration of conformity (it)** 89 kB, 18.06.2018

Code: KAS\_konfi\_nsr\_zt2xx-3xx\_it

**Declaration of conformity (pt)** 90 kB, 18.06.2018

Code: KAS\_konfi\_nsr\_zt2xx-3xx\_pt

**Declaration of conformity (fr)** 89 kB, 18.06.2018

Code: KAS\_konfi\_nsr\_zt2xx-3xx\_fr

**Declaration of conformity (de)** 581 kB, 07.06.2018

Code: KAS\_konfi\_nsr\_zt2xx-3xx\_de

**Declaration of conformity (en)** 579 kB, 07.06.2018

Code: KAS\_konfi\_nsr\_zt2xx-3xx\_en

**Declaration of conformity (nl)** 89 kB, 18.06.2018

Code: KAS\_konfi\_nsr\_zt2xx-3xx\_nl

**CCC certification (en)** 187 kB, 03.08.2015

Code: q\_347p02

**CCC certification (cn)** 166 kB, 03.08.2015

Code: q\_347p03

**EAC certification (ru)** 844 kB, 05.10.2015

Code: q\_6037p17\_ru

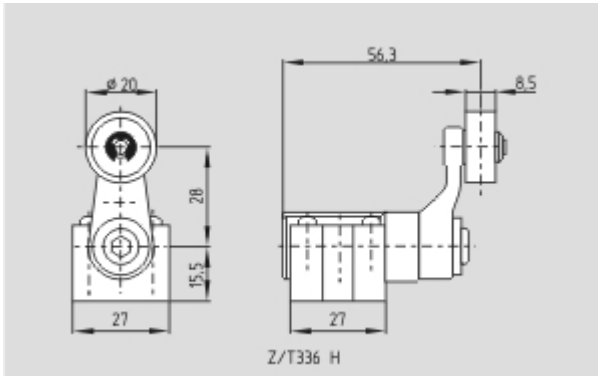
## Images

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Dimensional drawing (basic component)

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Dimensional drawing (actuator)

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The data and values have been checked thoroughly. Technical modifications and errors excepted.

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