

Datasheet - T4V7H 335-02z



Position switch / 335 Metal enclosure - DIN EN 50041 with Actuator / 335 Roller lever 7H




- Metal enclosure
- Wide range of alternative actuators
- 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°
- **only for positioning tasks**
- 1 Cable entry M 20 x 1.5
- Design to EN 50041

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

Ordering details

| | |
|--------------------------|---------------|
| Product type description | T4V7H 335-02Z |
| Article number | 1169441 |
| EAN code | 4030661295701 |

Approval


| | |
|----------|--|
| Approval |  USA/CAN  CCC |
|----------|--|

Classification

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

Global Properties

| | |
|--------------|-----------------------------|
| Product name | T 335 Rollenschwenkhebel 7H |
| Standards | EN 60947-5-1, BG-GS-ET-15 |

| | |
|---|--------------------------|
| Compliance with the Directives (Y/N)  | Yes |
| Suitable for safety functions (Y/N) | No |
| Materials | |
| - Material of the housings | Aluminium |
| - Lever material | Metal film |
| - Roller material | Plastic |
| - Material of the contacts | Silver |
| Housing coating | painted |
| Housing construction form | Norm construction design |
| Weight | 265 g |


Mechanical data

| | |
|---|---|
| Design of actuating element | Roller lever |
| Design of electrical connection | Screw connection |
| Cable section | |
| - Min. Cable section | 0,75 mm ² |
| - Max. Cable section | 2.5 mm ² |
| Mechanical life | 30.000.000 operations |
| Switching frequency | max. 5000 /h |
| actuating torque | min. 31 Ncm |
| Bounce duration | < 2 ms |
| 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 |
| notice | All indications about the cable section are including the conductor ferrules. |

Ambient conditions

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

Electrical data

| | |
|---|--|
| Design of control element | Opener (NC) |
| Switching principle | Slow action |
| - positive break NC contact  | |
| Number of auxiliary contacts | 0 piece |
| Number of safety contacts | 2 piece |
| 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, DC-13: 24 V / 4 A |
| Max. fuse rating | 6 A gG D-fuse |

ATEX

| | |
|---|------|
| Explosion protection categories for gases | None |
| Explosion protected category for dusts | None |

Dimensions

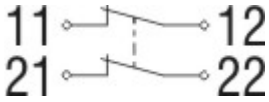
Dimensions of the sensor

| | |
|--------------------|----------|
| - Width of sensor | 40.5 mm |
| - Height of sensor | 183 mm |
| - Length of sensor | 57.25 mm |






notice

The positioning of the head must be carried out in factory.

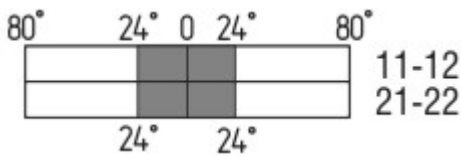
Diagram








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

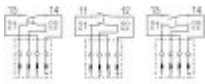
The applicable ordering suffix is added at the end of the part number of the safety switch.

Order example: T4V7H 335-02z-**1637**

...-**1637** 0,3 µm gold-plated contacts

...-**NPT** Cable entry NPT 1/2"

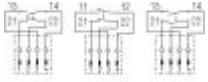
M12 connector with B-coding
 Rated impulse withstand voltage U_{imp} : 0,8 kV
 Rated insulation voltage U_i : 50 V



Operating current I_e : AC-15: 50 V / 4 A

Caution! The versions with connector may only be used in PELV circuits to EN 60204-1.

...-2310



M12 connector with A-coding

Rated impulse withstand voltage U_{imp} : 0,8 kV

Rated insulation voltage U_i : 50 V

Operating current I_e : AC-15: 50 V / 4 A

Caution! The versions with connector may only be used in PELV circuits to EN 60204-1.

...-ST

Ordering code

(1)(2) 3(3)5-(4)Z(5)-(6)-(7)-(8)-(9)

(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)

3 slim design

5 large design

(4)

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

12 1 Normally open contact (NO) / 2 Opener (NC)

03 3 Opener (NC)

(5)

H Slow action with staggered contacts

UE Slow action with overlapping contacts

(6)

G24 with LED

(7)

without Cable entry M20

NPT cable entry NPT 1/2"

ST M12 connector with A-coding (*Caution! The versions with connector may only be used in PELV circuits to EN 60204-1.*)

2310 M12 connector with B-coding (*Caution! The versions with connector may only be used in PELV circuits to EN 60204-1.*)

(8)

2138 Roller lever 7H for Position switches with safety function

(9)

Documents

Operating instructions and Declaration of conformity (nl) 710 kB, 01.12.2009

http://www.schmersal.net/Bilddata/Si_f1/Pdf/Z332/bedien/NL/mrl_zt332-335-336-355_nl.pdf

Operating instructions and Declaration of conformity (pt) 586 kB, 01.03.2010

http://www.schmersal.net/Bilddata/Si_f1/Pdf/Z332/bedien/PT/mrl_zt332-335-336-355_pt.pdf

Operating instructions and Declaration of conformity (it) 513 kB, 01.12.2009

http://www.schmersal.net/Bilddata/Si_f1/Pdf/Z332/bedien/IT/mrl_zt332-335-336-355_it.pdf

Operating instructions and Declaration of conformity (cn) 797 kB, 02.03.2010

http://www.schmersal.net/Bilddata/Si_f1/Pdf/Z332/bedien/CN/mrl_zt332-335-336-355_cn.pdf

Operating instructions and Declaration of conformity (en) 605 kB, 22.03.2010

http://www.schmersal.net/Bilddata/Si_f1/Pdf/Z332/bedien/EN/mrl_zt332-335-336-355_en.pdf

Operating instructions and Declaration of conformity (de) 581 kB, 27.11.2009

http://www.schmersal.net/Bilddata/Si_f1/Pdf/Z332/bedien/DE/mrl_zt332-335-336-355_de.pdf

Operating instructions and Declaration of conformity (es) 516 kB, 27.11.2009

http://www.schmersal.net/Bilddata/Si_f1/Pdf/Z332/bedien/ES/mrl_zt332-335-336-355_es.pdf

Operating instructions and Declaration of conformity (jp) 677 kB, 27.11.2009

http://www.schmersal.net/Bilddata/Si_f1/Pdf/Z332/bedien/JP/mrl_zt332-335-336-355_jp.pdf

Operating instructions and Declaration of conformity (fr) 525 kB, 01.12.2009

http://www.schmersal.net/Bilddata/Si_f1/Pdf/Z332/bedien/FR/mrl_zt332-335-336-355_fr.pdf

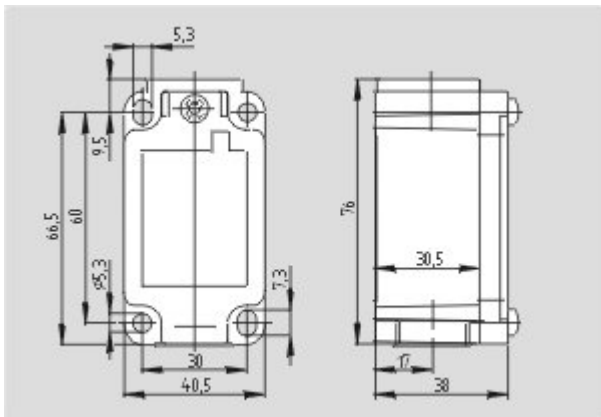
CCC certification (en) 584 kB, 12.12.2006

http://www.schmersal.net/Bilddata/Si_f1/Pdf/Zt235/zertifikat/q_347p02.pdf

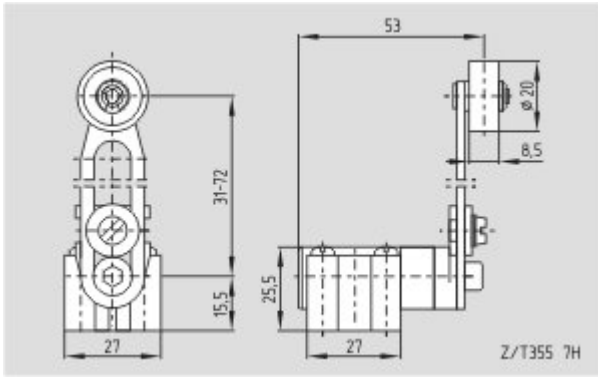
CCC certification (cn) 605 kB, 12.12.2006

http://www.schmersal.net/Bilddata/Si_f1/Pdf/Zt235/zertifikat/q_347p03.pdf

Images



Dimensional drawing (basic component)



Dimensional drawing (actuator)

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