

Datasheet - Z4VH 336-11z




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

Preferred typ



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

- Snap action with constant contact pressure up to switching point
- Lever angle adjustable in 10° steps
- thermoplastic enclosure
- Double-insulated 
- Good resistance to oil and petroleum spirit
- 40,5 mm x 76 mm x 38 mm
- Wide range of alternative actuators
- Actuator heads can be repositioned by 4 x 90°
- 1 Cable entry M 20 x 1.5
- Design to EN 50041

Ordering details

| | |
|--------------------------|---------------|
| Product type description | Z4VH 336-11Z |
| Article number | 101151762 |
| EAN code | 4030661163611 |

Approval

Approval




Classification

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

Global Properties

| | |
|--------------|--------------------------|
| Product name | 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 | 165 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. 26 Ncm |
| Bounce duration | in accordance with actuating speed |
| Switchover time | < 2 ms |
| 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

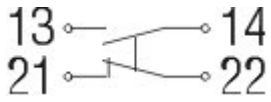
| | |
|---|--|
| Design of control element | Normally open contact (NO), Opener (NC) |
| Switching principle | Snap switch element |
| - positive break NC contact  | |
| Number of auxiliary contacts | 1 piece |
| Number of safety contacts | 1 piece |
| Rated impulse withstand voltage U _{imp} | 6 kV |
| 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 / 1 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 |

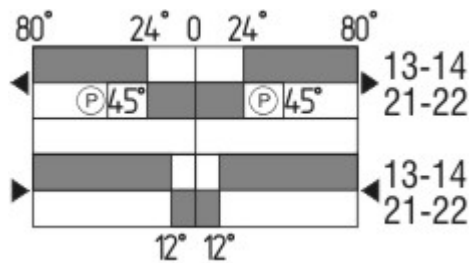
Diagram



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

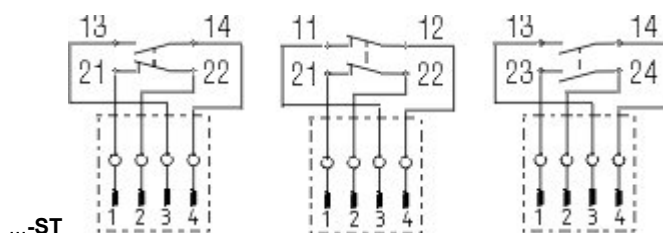
Ordering suffix

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

Order example: Z4VH 336-11z-NPT

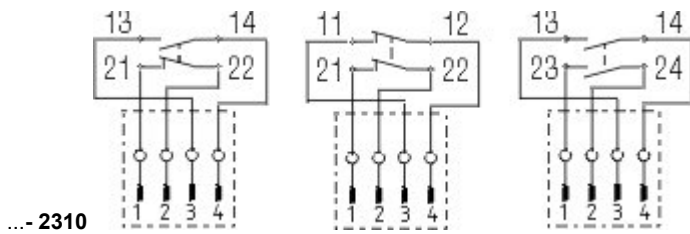
...-NPT

Cable entry NPT 1/2"



...-ST

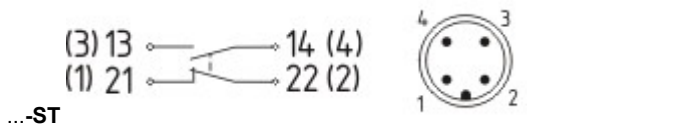
M12 connector with A-coding



M12 connector with B-coding

...-1637

0,3 µm gold-plated contacts



M12 connector with A-coding

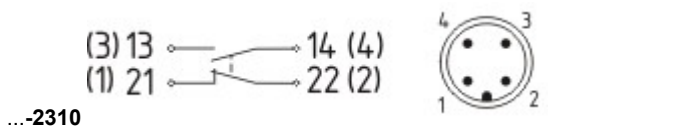
Rated impulse withstand voltage U_{imp} : 0,8 kV

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



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

Ordering code

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

(1)

Z

T

Snap action

Slow action

(2)

S

R

H

10H

7H

1K

3K

Plunger S

Roller plunger R

Roller lever H

Rod lever 10H

Roller lever 7H

Offset roller lever 1K

Angle roller lever 3K

(3)

11

02

20

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

2 Opener (NC)

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

UE

Slow action with staggered contacts

Slow action with overlapping contacts

(5)

without

NPT

ST

2310

Cable entry M20

cable entry NPT 1/2"

M12 connector with A-coding

M12 connector with B-coding

(6)

2138

Roller lever 7H for Position switches with safety function

Documents

Operating instructions and Declaration of conformity (da) 360 kB, 13.08.2012

Code: mrl_zt332-335-336-355_da

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

Code: mrl_zt332-335-336-355_cn

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

Code: mrl_zt332-335-336-355_pt

Operating instructions and Declaration of conformity (pl) 475 kB, 15.11.2011

Code: mrl_zt332-335-336-355_pl

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

Code: mrl_zt332-335-336-355_de

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

Code: mrl_zt332-335-336-355_en

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

Code: mrl_zt332-335-336-355_es

Operating instructions and Declaration of conformity (jp) 1 MB, 22.11.2010

Code: mrl_zt332-335-336-355_jp

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

Code: mrl_zt332-335-336-355_fr

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

Code: mrl_zt332-335-336-355_it

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

Code: mrl_zt332-335-336-355_nl

CCC certification (en) 584 kB, 12.12.2006

Code: q_347p02

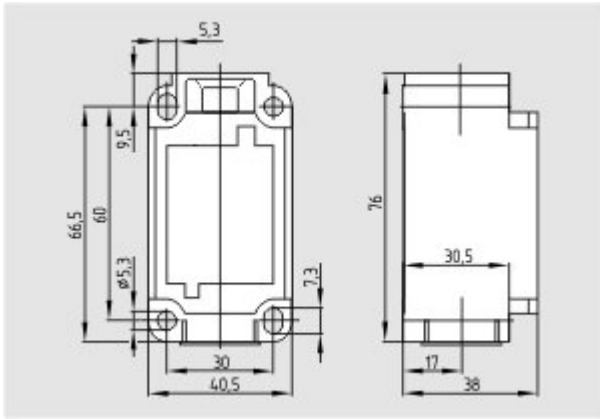
CCC certification (cn) 605 kB, 12.12.2006

Code: q_347p03

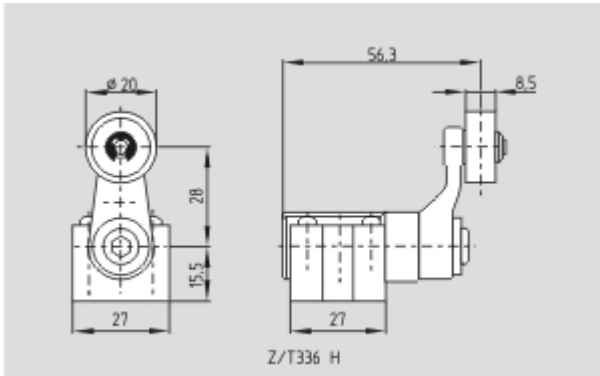
Gost certification (ru) 2 MB, 07.07.2011

Code: q_az1p01

Images



Dimensional drawing (basic component)



Dimensional drawing (actuator)

K.A. Schmersal GmbH, Möddinghofe 30, D-42279 Wuppertal

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

Generiert am 02.11.2012 - 16:23:08h Kasbase 2.2.2 DBII

