

Datasheet - Z4VH 336-11z



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



- 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

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

Ordering details

Product type description	Z4VH 336-11Z
Article number	1151762
EAN code	4030661163611

Approval

Approval



USA/CAN


CCC

Classification

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

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

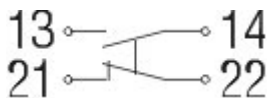
Design of control element	Normally open contact (NO), Opener (NC)
Switching principle	Snap switch element
- positive break NC contact 	
Number of auxiliary contacts	1 piece
Number of safety contacts	1 piece
Rated impulse withstand voltage U _{imp}	6 kV
Rated insulation voltage U _i	500 V
Thermal test 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

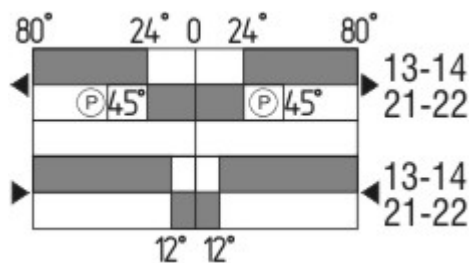
Diagram



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

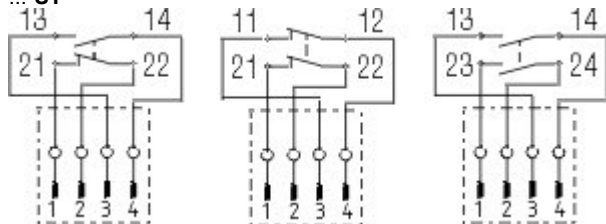
The applicable ordering suffix is added at the end of the part number of the safety switch.

Order example: Z4VH 336-11z-NPT

...-NPT

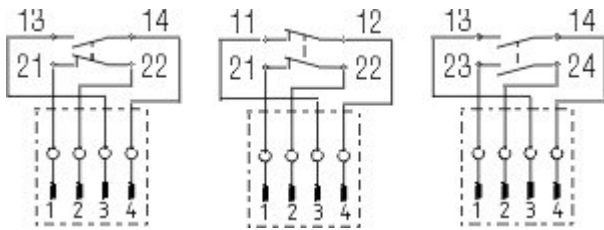
Cable entry NPT 1/2"

...-ST



M12 connector with A-coding

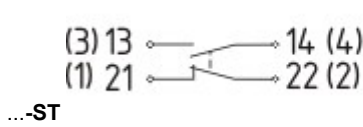
...- 2310



M12 connector with B-coding

...-1637

0,3 µm gold-plated contacts



...-ST



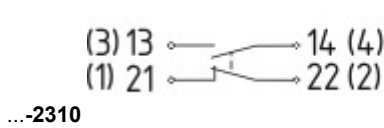
M12 connector with A-coding

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

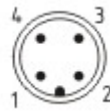
Rated insulation voltage U_i : 50 V

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.



...-2310



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.

Ordering code

(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

2310 M12 connector with B-coding

(6)

2138 Roller lever 7H for Position switches with safety function

(7)

Documents

Operating instructions and Declaration of conformity (pt) 586 kB, 01.03.2010
http://127.0.0.1/Bilddata/Si_f1/Pdf/Z332/bedien/PT/mrl_zt332-335-336-355_pt.pdf

Operating instructions and Declaration of conformity (nl) 710 kB, 01.12.2009
http://127.0.0.1/Bilddata/Si_f1/Pdf/Z332/bedien/NL/mrl_zt332-335-336-355_nl.pdf

Operating instructions and Declaration of conformity (cn) 797 kB, 02.03.2010
http://127.0.0.1/Bilddata/Si_f1/Pdf/Z332/bedien/CN/mrl_zt332-335-336-355_cn.pdf

Operating instructions and Declaration of conformity (de) 581 kB, 27.11.2009
http://127.0.0.1/Bilddata/Si_f1/Pdf/Z332/bedien/DE/mrl_zt332-335-336-355_de.pdf

Operating instructions and Declaration of conformity (en) 605 kB, 22.03.2010
http://127.0.0.1/Bilddata/Si_f1/Pdf/Z332/bedien/EN/mrl_zt332-335-336-355_en.pdf

Operating instructions and Declaration of conformity (es) 516 kB, 27.11.2009
http://127.0.0.1/Bilddata/Si_f1/Pdf/Z332/bedien/ES/mrl_zt332-335-336-355_es.pdf

Operating instructions and Declaration of conformity (jp) 1 MB, 22.11.2010
http://127.0.0.1/Bilddata/Si_f1/Pdf/Z332/bedien/JP/mrl_zt332-335-336-355_jp.pdf

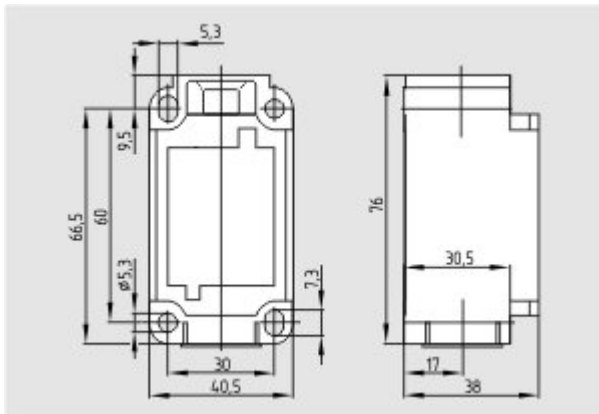
Operating instructions and Declaration of conformity (fr) 525 kB, 01.12.2009
http://127.0.0.1/Bilddata/Si_f1/Pdf/Z332/bedien/FR/mrl_zt332-335-336-355_fr.pdf

Operating instructions and Declaration of conformity (it) 513 kB, 01.12.2009
http://127.0.0.1/Bilddata/Si_f1/Pdf/Z332/bedien/IT/mrl_zt332-335-336-355_it.pdf

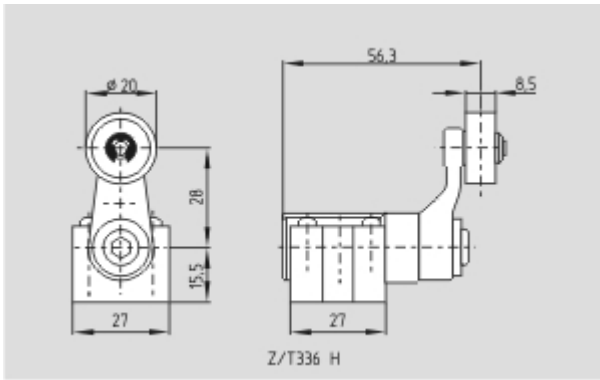
CCC certification (cn) 605 kB, 12.12.2006
http://127.0.0.1/Bilddata/Si_f1/Pdf/Zt235/zertifikat/q_347p03.pdf

CCC certification (en) 584 kB, 12.12.2006
http://127.0.0.1/Bilddata/Si_f1/Pdf/Zt235/zertifikat/q_347p02.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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[924CE1-T3](#) [924CE1-T9A](#) [924CE2-T9](#) [924CE31-Y20-X5](#) [924CE31-Y3L1](#) [GL-10054](#) [GL-85710](#) [GL-85714](#) [GLAB26J2B](#) [GLDB03C-6](#)
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