

Datasheet - ZS 332-11Y

Position switch / 332 Metal enclosure - DIN EN 50041 with
Actuator / 332 Plunger S



- Metal enclosure
- Wide range of alternative actuators
- Good resistance to oil and petroleum spirit
- 40 mm x 76 mm x 40 mm
- Actuator heads can be repositioned by 4 x 90°
- 1 Cable entry M 20 x 1.5
- Large contact break
- High repeat accuracy of the switching points
- Gold-plated solid silver contacts
- Magnetic-storage snap action system
- Switching system separated from snap action system, providing constant switching point independent of contact wear
- Design to EN 50041

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

Ordering details

Product type description	ZS 332-11Y
Article number	1149622
EAN code	4030661152516

Approval

Approval



Classification

Standards	EN ISO 13849-1
B _{10d} Opener (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	332 Druckbolzen S
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	B to EN 50041
Materials	
- Material of the housings	Metal film
- Material of the contacts	gold-plated silver
Housing coating	painted
Housing construction form	Norm construction design
Weight	190 g

Mechanical data

Design of actuating element	Plunger
Design of electrical connection	Screw connection
Cable section	
- Min. Cable section	1.5 mm ²
- Max. Cable section	2.5 mm ²
Mechanical life	30.000.000 operations
Switching frequency	max. 3000 /h
Actuating force	min. 31 N
Bounce duration	< 2.5 ms
Switchover time	> 1.5 ms
Contact break for complete stroke	> 2 x 1.25 mm
Repeat accuracy of switching points	± 0,02 mm
Actuating speed for vertical actuation	
- Min. Actuating speed	10 mm/min
- Max. Actuating speed	
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	IP65

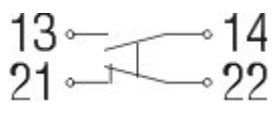
Electrical data

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}	4 kV
Rated insulation voltage U _i	250 V
Thermal test current I _{the}	6 A
Utilisation category	AC-15: 230 V / 2,5 A
Max. fuse rating	6 A gG D-fuse

Dimensions

Dimensions of the sensor	
- Width of sensor	40 mm
- Height of sensor	103.5 mm
- Length of sensor	40 mm

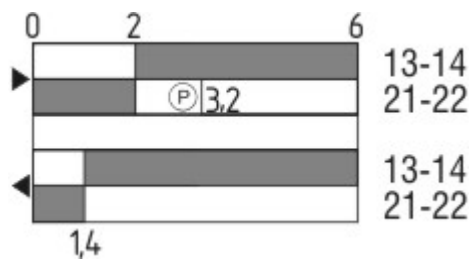
Diagram



Note Diagram

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

Switch travel diagram

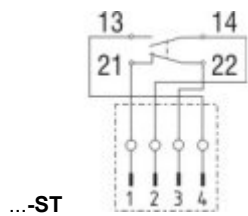


Notes Switch travel diagram

- 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

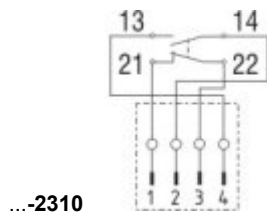
Ordering suffix

The applicable ordering suffix is added at the end of the part number of the safety switch.
Order example: ZS 332-11Y-ST



...-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

Z(1) 332-11Y-(2)-(3)

(1)

S Plunger S
R Roller plunger R
H Roller lever H
10H Rod lever 10H
7H Roller lever 7H

(2)

without Cable entry M20

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.*)

(3)

2138 Roller lever 7H for Position switches with safety function

Documents

Operating instructions and Declaration of conformity (jp) 1 MB, 17.11.2010

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 (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 (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 (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 (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 (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 (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

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

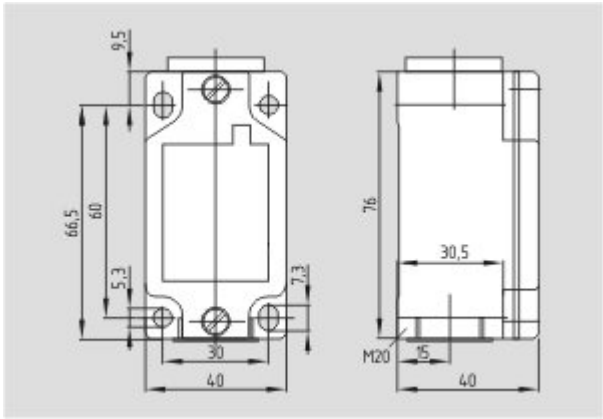
CCC certification (cn) 605 kB, 12.12.2006

http://127.0.0.1/Bilddata/Si_f1/Pdf/Zt235/zertifikat/q_347p03.pdf

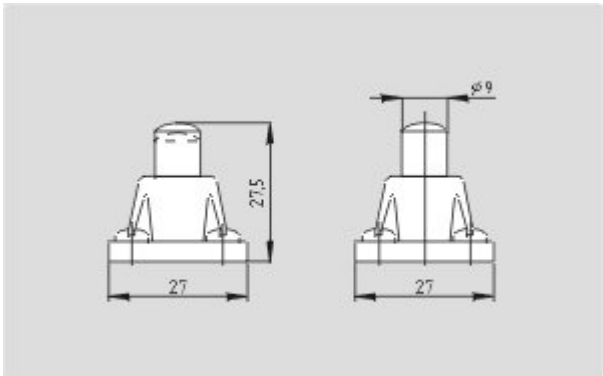
CCC certification (en) 584 kB, 12.12.2006

http://127.0.0.1/Bilddata/Si_f1/Pdf/Zt235/zertifikat/q_347p02.pdf

Images



Dimensional drawing (basic component)



Dimensional drawing (actuator)