19.01.2016
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Datasheet - Z4V7H 335-11z

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

SCHMERSAL

☒ Preferred typ



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

- Metal enclosure
- Wide range of alternative actuators
- Good resistance to oil and petroleum spirit
- 40,5 mm x 76 mm x 38 mm
- Snap action with constant contact pressure up to switching point
- 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

Ordering details

Product type description	Z4V7H 335-11Z
Article number	101161691
EAN code	4030661196541
eCl@ss	27-27-26-01

Approval

Approval	cULus USA/CAN CCC EAC

Classification

Standards	EN ISO 13849-1
B_{10d} Normally-closed contact (NC)	20.000.000
Mission time	20 Years
notice	$MTTF_d = \frac{B_{10d}}{0.1 \times n_{op}}$ $n_{op} = \frac{d_{op} \times h_{op} \times 3600\ s/h}{t_{cycle}}$

Global Properties

Product name	Z 335 Rollenschwenkhebel 7H
Standards	EN 60947-5-1, BG-GS-ET-15
Compliance with the Directives (Y/N) CE	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	270 g

Mechanical data

Design of electrical connection	Screw connection
Cable section	
- Min. Cable section	0,75 mm²
- Max. Cable section	2.5 mm²
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. 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

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
Number of auxiliary contacts	1 piece
Number of safety contacts	1 piece
Rated impulse withstand voltage U_{imp}	6 kV
Rated insulation voltage Ui	500 V
Thermal test current I_{the}	10 A
Utilisation category	AC-15: 230 V / 4 A, DC-13: 24 V / 4 A
Required rated short-circuit current	1000 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

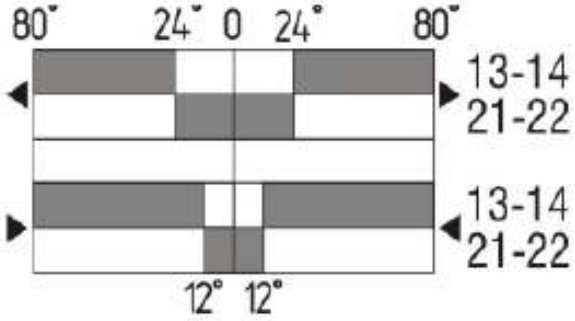
active

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

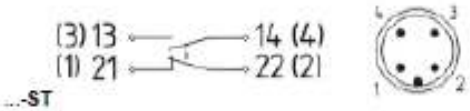
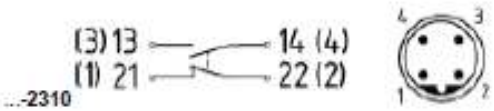
VS adjustable range of NO contact

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: Z4V7H 335-11z-**1637**

...-1637	0,3 µm gold-plated contacts
...-NPT	Cable entry NPT 1/2"
 ...-ST	M12 connector with A-coding Rated impulse withstand voltage U_{imp}: 0,8 kV Rated insulation voltage Ui: 50 V Rated operating voltage U_e: 50 V Operating current I_e: 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 Ui: 50 V Rated operating voltage U_e: 50 V Operating current I_e: 4 A Caution! The versions with connector may only be used in PELV circuits to EN 60204-1.

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.)*
ST-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)	
1637	gold-plated contacts

Documents

Operating instructions and Declaration of conformity (de) 310 kB, 03.04.2013
Code: mrl_zt332-335-336-355_de

Operating instructions and Declaration of conformity (it) 308 kB, 04.04.2013
Code: mrl_zt332-335-336-355_it

Operating instructions and Declaration of conformity (fr) 325 kB, 04.04.2013
Code: mrl_zt332-335-336-355_fr

Operating instructions and Declaration of conformity (nl) 321 kB, 04.04.2013
Code: mrl_zt332-335-336-355_nl

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 (cs) 371 kB, 07.10.2014
Code: mrl_zt332-335-336-355_cs

Operating instructions and Declaration of conformity (pt) 327 kB, 04.04.2013
Code: mrl_zt332-335-336-355_pt

Operating instructions and Declaration of conformity (es) 323 kB, 04.04.2013
Code: mrl_zt332-335-336-355_es

Operating instructions and Declaration of conformity (da) 323 kB, 04.04.2013
Code: mrl_zt332-335-336-355_da

Operating instructions and Declaration of conformity (en) 355 kB, 05.08.2014
Code: mrl_zt332-335-336-355_en

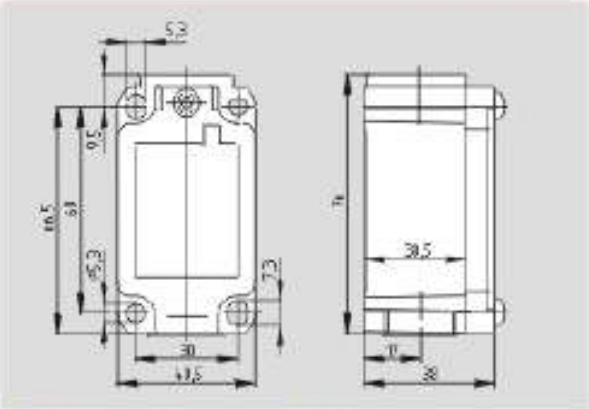
Operating instructions and Declaration of conformity (pl) 372 kB, 06.02.2015
Code: mrl_zt332-335-336-355_pl

CCC certification (en) 187 kB, 03.08.2015
Code: q_347p02

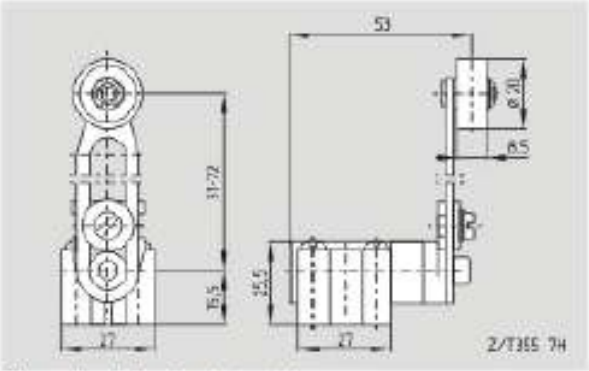
CCC certification (cn) 166 kB, 03.08.2015
Code: q_347p03

EAC certification (ru) 844 kB, 05.10.2015
Code: q_6037p17_ru

Images



Dimensional drawing (basic component)



Dimensional drawing (actuator)

K.A. Schmersal GmbH & Co. KG, Möddinghofe 30, D-42279 Wuppertal
The data and values have been checked throroughly. Technical modifications and errors excepted.
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