

Datasheet - ZV7H 236-11z-2138



Position switch / 236 Thermoplastic enclosure - EN 50047 with Actuator / 236 Roller lever
7H-2138

☒ Preferred typ



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

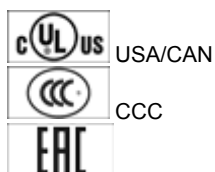
- Thermoplastic enclosure
- Good resistance to oil and petroleum spirit
- Wide range of alternative actuators
- 30 mm x 58,5 mm x 30 mm
- Snap action with constant contact pressure up to switching point
- 1 Cable entry M 20 x 1.5
- Double-insulated 
- Mounting details to EN 50047
- Actuator heads can be repositioned by 4 x 90°
- Lever angle adjustable in 10° steps

Ordering details

Product type description	ZV7H 236-11z-2138
Article number	101122969
EAN code	4030661070728
eCl@ss	27-27-26-01

Approval

Approval



Classification

Standards	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	Z 236 Rollenschwenkhebel 7H-2138
Standards	IEC 60947-5-1, ISO 13849-1, BG-GS-ET-15
Compliance with the Directives (Y/N) 	Yes
Suitable for safety functions (Y/N)	Yes
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	95 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	20.000.000 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. 15 Ncm
Bounce duration	< 3 ms
Switchover time	< 5.5 ms
Positive break torque	18.5 Ncm
Actuating speed with actuating angle 30° to switch axis	
- Min. Actuating speed	240 mm/min
- Max. Actuating speed	1 m/s

Ambient conditions

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

Electrical data

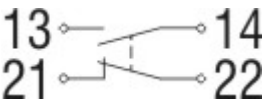
Design of control element	Normally open contact (NO), Opener (NC)
Switching principle	Snap switch element
- positive break NC contact 	
Number of auxiliary contacts	1 piece
Number of safety contacts	1 piece
Rated impulse withstand voltage U _{imp}	6 kV
Rated insulation voltage U _i	500 V
Thermal test current I _{the}	10 A
Utilisation category	AC-15: 230 V / 4 A, DC-13: 24 V / 1 A
Required rated short-circuit current	1000 A
Max. fuse rating	6 A gG D-fuse

Dimensions

Dimensions of the sensor

- Width of sensor	30 mm
- Height of sensor	158.5 mm
- Length of sensor	49 mm

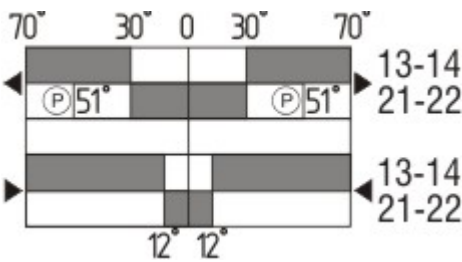
Diagram



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

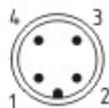
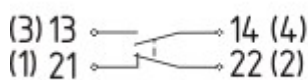
The applicable ordering suffix is added at the end of the part number of the safety switch.
Order example: ZV7H 236-11z-2138-**1637**

.... 1637	0,3 µm gold-plated contacts
....- ID	IDC method of termination
.... -NPT	Cable entry NPT 1/2"
.... -1297	Enclosure with transverse slotted holes

...Z

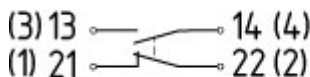
Actuator head gasket

...ST



M12 connector with A-coding
Rated impulse withstand voltage U_{imp} : 4 kV
Rated insulation voltage U_i : 250 V
Rated operating voltage U_e : 230 V
Operating current I_e : 4 A

...2310



M12 connector with B-coding
Rated impulse withstand voltage U_{imp} : 4 kV
Rated insulation voltage U_i : 250 V
Rated operating voltage U_e : 230 V
Operating current I_e : 4 A

Ordering code

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

(1)

Z

Snap action

T

Slow action

(2)

S

Plunger S

R

Roller plunger R

4S

Plunger 4S

4R

Roller plunger 4R

1R

Offset roller lever 1R

K

Offset roller lever K

3K

Angle roller lever 3K

4K

Angle roller lever 4K

K4

Angle roller lever K4

1H

Roller lever 1H

7H

Roller lever 7H

10H

Rod lever 10H

12H

Roller lever 12H

14H

Roller lever 14H

AF

Spring rod lever AF

(3)

3

slim design

5

large design

(4)

02

2 Opener (NC)

11

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

20

2 Normally open contact (NO), (Switch with 2 NO contacts are not for security tasks)

(5)

H

Slow action with staggered contacts

UE

Slow action with overlapping contacts

(6)

without

Cable entry M20

ID

IDC method of termination

NPT

cable entry NPT 1/2"

ST

M12 connector with A-coding

ST-2310	M12 connector with B-coding
(7)	
1297	Enclosure with transverse slotted holes
(8)	
2138	Roller lever 7H for Position switches with safety function
(9)	
1637	gold-plated contacts

Documents

Operating instructions and Declaration of conformity (da) 304 kB, 21.08.2013

Code: mrl_ZT235_236_da

Operating instructions and Declaration of conformity (de) 302 kB, 09.03.2016

Code: mrl_ZT235_236_de

Operating instructions and Declaration of conformity (en) 334 kB, 09.03.2016

Code: mrl_ZT235_236_en

Operating instructions and Declaration of conformity (pl) 354 kB, 25.07.2016

Code: mrl_ZT235_236_pl

Operating instructions and Declaration of conformity (pt) 321 kB, 25.07.2016

Code: mrl_ZT235_236_pt

Operating instructions and Declaration of conformity (es) 318 kB, 22.11.2016

Code: mrl_ZT235_236_es

Operating instructions and Declaration of conformity (br) 323 kB, 01.03.2017

Code: mrl_ZT235_236_br

Operating instructions and Declaration of conformity (it) 314 kB, 25.07.2016

Code: mrl_ZT235_236_it

Operating instructions and Declaration of conformity (fr) 320 kB, 25.07.2016

Code: mrl_ZT235_236_fr

Operating instructions and Declaration of conformity (jp) 627 kB, 22.05.2017

Code: mrl_ZT235_236_jp

Operating instructions and Declaration of conformity (nl) 318 kB, 16.04.2014

Code: mrl_ZT235_236_nl

CCC certification (cn) 4 MB, 27.10.2017

Code: q_235p02

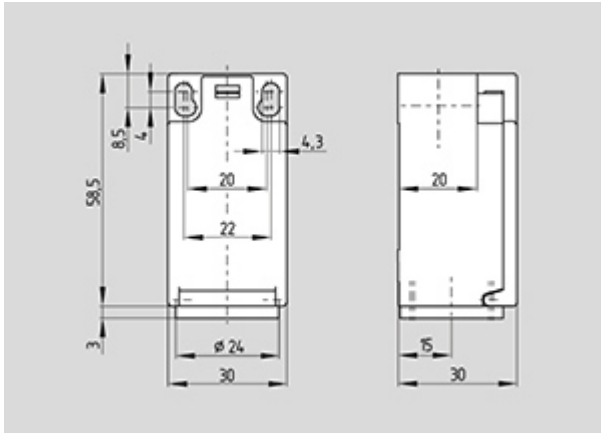
CCC certification (en) 4 MB, 27.10.2017

Code: q_235p01

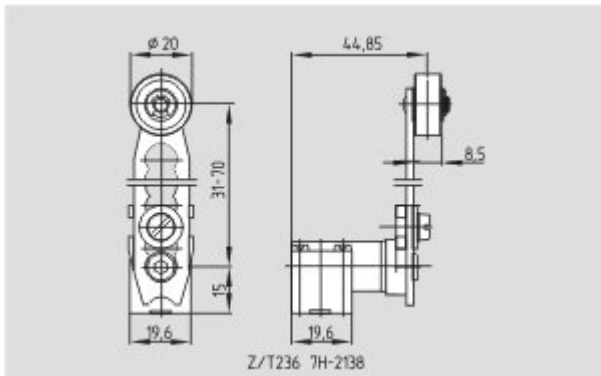
EAC certification (ru) 844 kB, 05.10.2015

Code: q_6037p17_ru

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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