

Datasheet - T1R 236-02z



Position switch / 236 thermoplastic enclosure - DIN EN 50047 with Actuator / 236 Offset roller lever 1r

Preferred typ



- thermoplastic enclosure
- Good resistance to oil and petroleum spirit
- Wide range of alternative actuators
- 30 mm x 58,5 mm x 30 mm
- 1 Cable entry M 20 x 1,5
- Double-insulated
- Mounting details to EN 50047
- Actuator heads can be repositioned by 4 x 90°

勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-34970699
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

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

Ordering details

Product type description	T1R 236-02Z
Article number	101159061
EAN code	4030661184050

Approval

Approval




Classification

Standards	EN ISO 13849-1
B10d Normally-closed contact (NC)	20.000.000
Mission time notice	20 Years
	$MTTF_d = \frac{B_{10d}}{0,1 \times n_{op}}$
	$n_{op} = \frac{d_{op} \times h_{cp} \times 3600 \text{ s/h}}{t_{cycle}}$

Global Properties

Product name	T 236 Rollenhebel 1R
--------------	----------------------

Standards	EN 60947-5-1 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
- Material of the contacts	Silver
Housing coating	None
Housing construction form	Norm construction design
Weight	55 g


Mechanical data

Design of actuating element	Offset roller lever
Design of electrical connection	Screw connection
Cable section	
- Min. Cable section	1.5 mm ²
- Max. Cable section	2.5 mm ²
Mechanical life	20.000.000 operations
Switching frequency	max. 5000/h
Actuating force	min. 9 N
Bounce duration	in accordance with actuating speed
Switchover time	in accordance with actuating speed
Positive break force	19 N
Actuating speed with actuating angle 30° to switch axis	
- Min. Actuating speed	160 mm/min
- Max. Actuating speed	1 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	Opener (NC)
Switching principle	Creep circuit element
- positive break NC contact 	
Number of auxiliary contacts	0 piece
Number of safety contacts	2 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	30 mm
- Height of sensor	89.5 mm






- Length of sensor

30 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: T1R 236-02z-**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

Ordering code

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

(1)

Z

T

Snap action

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
(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), (<i>Switch with 2 NO contacts are not for security tasks</i>)
(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
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 (en) 318 kB, 11.12.2012

Code: mrl_ZT235_236_en

Operating instructions and Declaration of conformity (nl) 383 kB, 27.11.2009

Code: mrl_ZT235_236_nl

Operating instructions and Declaration of conformity (de) 292 kB, 11.12.2012

Code: mrl_ZT235_236_de

Operating instructions and Declaration of conformity (pt) 395 kB, 15.04.2010

Code: mrl_ZT235_236_pt

Operating instructions and Declaration of conformity (es) 392 kB, 15.04.2010

Code: mrl_ZT235_236_es

Operating instructions and Declaration of conformity (fr) 400 kB, 15.04.2010

Code: mrl_ZT235_236_fr

Operating instructions and Declaration of conformity (it) 377 kB, 15.04.2010

Code: mrl_ZT235_236_it

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

Code: mrl_ZT235_236_jp

CCC certification (cn) 605 kB, 12.12.2006

Code: q_347p03

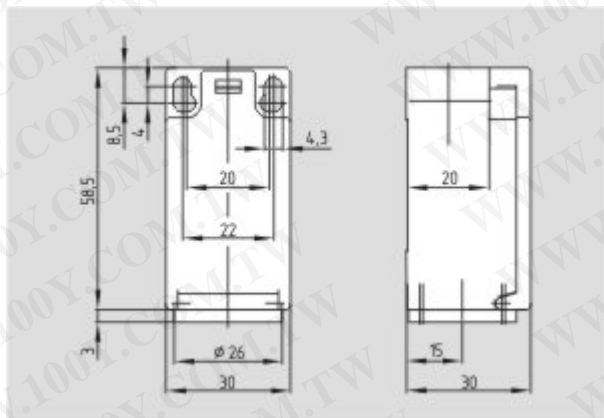
CCC certification (en) 584 kB, 12.12.2006

Code: q_347p02

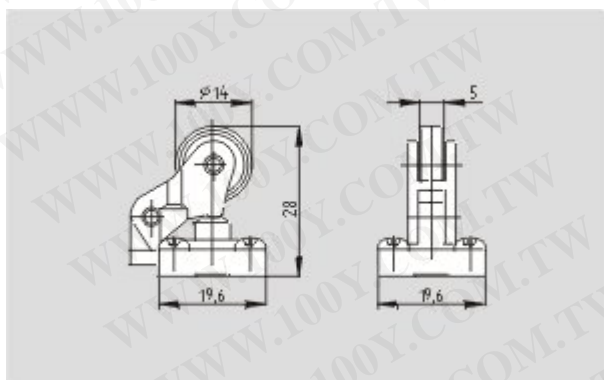
Gost certification (ru) 2 MB, 07.07.2011

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 14.12.2012 - 11:43:32h Kasbase 2.2.2 DBII

Image