



T1R236-11Z-M20

- Double-insulated
- Thermoplastic enclosure
- 30 mm x 58,5 mm x 30 mm
- 1 Cable entry M 20 x 1.5
- Mounting details to EN 50047
- Wide range of alternative actuators
- Good resistance to oil and petroleum spirit
- Actuator heads can be repositioned by 4 x 90°

Data

Ordering data

Product type description	T1R 236-11Z
Article number (order number)	101146446
EAN (European Article Number)	4030661138855
eCl@ss number, Version 9.0	27-27-26-01

Approval - Standards

Certificates	cULus
	cCSAus
	CCC
	EAC

General data

Product name	T 236 offset roller lever 1R
Standards	IEC 60947-5-1
	ISO 13849-1
	BG-GS-ET-15
Housing construction form	Norm construction design
Enclosure material	Plastic, glass-fibre reinforced thermoplastic, self-extinguishing
Material of the contacts, electrical	Silver
Gross weight	59 g

General data - Features

Safety functions	Yes
Number of auxiliary contacts	1

Number of safety contacts	1
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Safety appraisal

Standards	ISO 13849-1
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Mission Time	20 Year(s)
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Safety appraisal - Safety outputs

B10d Normally-closed contact (NC)	20,000,000 Operations
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Mechanical data

Actuating element	Offset roller lever
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Mechanical life, minimum	20,000,000 Operations
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Actuating force, minimum	9 N
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Positive break force, minimum	19 N
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Actuating speed, minimum	160 mm/min
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Actuating speed, maximum	1 m/s
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Note (Actuating speed)	Actuating speed with actuating angle 30° to switch axis
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Note Bounce duration	Bounce duration in accordance with actuating speed
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Note (Switchover time)	Switchover time in accordance with actuating speed
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Mechanical data - Connection technique

Terminal Connector	Screw connection
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Cable section, minimum	0.75 mm ²
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Cable section, maximum	2.5 mm ²
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Note (Cable section)	All indications about the cable section are including the conductor ferrules.
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Mechanical data - Dimensions

Height of sensor	89.5 mm
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Length of sensor	30 mm
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Width of sensor	30 mm
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Ambient conditions

Protection class	IP67
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Ambient temperature, minimum	-30 °C
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Ambient temperature, maximum	+80 °C
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Ambient conditions - Insulation value

Rated impulse withstand voltage	6 kV
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Electrical data

Thermal test current	10 A
Required rated short-circuit current to EN 60947-5-1	1,000 A
Utilisation category AC-15	230 VAC
Utilisation category AC-15	4 A
Utilisation category DC-13	24 VDC
Utilisation category DC-13	1 A
Switching element	NO contact, NC contact
Switching principle	Creep circuit element
Switching frequency	5,000 /h

Ordering code

Product type description:

(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
RMS	Brass roller

(3)

3 slim design
5 large design

(4)

02 2 NC contact
11 1 NO contacts/1 NC contact
20 2 NO contacts, (switches with 2 NO contacts are not suitable for safety applications)

(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

Pictures

Product picture (catalogue individual photo)



ID: k236rf03

| 139,2 kB | .png | 74.083 x 159.103 mm - 210 x 451
Pixel - 72 dpi

| 310,6 kB | .jpg | 125.589 x 270.228 mm - 356 x 766
Pixel - 72 dpi

Product picture (catalogue individual photo)



ID: k236sf01

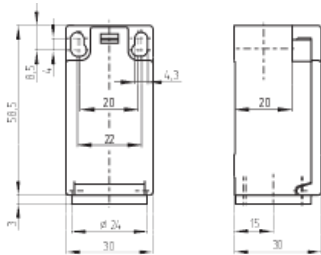
| 121,0 kB | .png | 74.083 x 150.636 mm - 210 x 427

Pixel - 72 dpi

| 154,5 kB | .jpg | 111.478 x 227.189 mm - 316 x 644

Pixel - 72 dpi

Dimensional drawing basic component



ID: 1-236g01

| 115,0 kB | .jpg | 352.778 x 349.956 mm - 1000 x 992

Pixel - 72 dpi

| 4,0 kB | .png | 74.083 x 73.378 mm - 210 x 208 Pixel

- 72 dpi

Switch travel diagram



ID: kr235s01

| 42,5 kB | .jpg | 352.778 x 112.889 mm - 1000 x 320

Pixel - 72 dpi

| 24,9 kB | .cdr |

| 1,7 kB | .png | 74.083 x 23.636 mm - 210 x 67 Pixel

- 72 dpi

Diagram



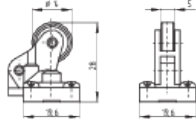
ID: k1o1sk01

| 52,2 kB | .jpg | 352.778 x 143.581 mm - 1000 x 407

Pixel - 72 dpi

Dimensional drawing actuator

ID: 1r236g03



| 6,5 kB | .png | 74.083 x 51.506 mm - 210 x 146 Pixel
- 72 dpi

| 63,9 kB | .jpg | 352.778 x 245.886 mm - 1000 x 697
Pixel - 72 dpi

| 111,6 kB | .cdr |

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The details and data referred to have been carefully checked. Images may diverge from original. Further technical data can be found in the manual. Technical amendments and errors possible.

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