


# T1R236-02Z

- **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** | |
| | T1R 236-02Z |
| | 101159061 |
| EAN (European Article Number) | 4030661184050 |
| eCl@ss number, Version 9.0 | 27-27-26-01 |
| **Approval - Standards** | |
| | cULus<br>cCSAus<br>CCC<br>EAC |
| **General data** | |
| Product name | T 236 offset roller lever 1R |
| | IEC 60947-5-1<br>ISO 13849-1<br>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 | 55 g |
| **General data - Features** | |
| Safety functions | Yes |
| Number of safety contacts | 2 |

| | |
|---|---|
| **Safety appraisal** | |
| | ISO 13849-1 |
| Mission Time | 20 Year(s) |
| **Safety appraisal - Safety outputs** | |
| B10d Normally-closed contact (NC) | 20,000,000 Operations |
| **Mechanical data** | |
| Actuating element | Offset roller lever |
| Mechanical life, minimum | 20,000,000 Operations |
| Actuating force, minimum | 9 N |
| Positive break force, minimum | 19 N |
| Actuating speed, minimum | 160 mm/min |
| Actuating speed, maximum | 1 m/s |
| Note (Actuating speed) | Actuating speed with actuating angle 30° to switch axis |
| Note Bounce duration | Bounce duration in accordance with actuating speed |
| Note (Switchover time) | Switchover time in accordance with actuating speed |
| **Mechanical data - Connection technique** | |
| Terminal Connector | Screw connection |
| | 0.75 mm² |
| | 2.5 mm² |
| Note (Cable section) | All indications about the cable section are including the conductor ferrules. |
| **Mechanical data - Dimensions** | |
| Height of sensor | 89.5 mm |
| Length of sensor | 30 mm |
| Width of sensor | 30 mm |
| **Ambient conditions** | |
| | IP67 |
| Ambient temperature, minimum | -30 °C |
| Ambient temperature, maximum | +80 °C |
| **Ambient conditions - Insulation value** | |
| Rated impulse withstand voltage | 6 kV |
| **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 | Opener (NC) |
| 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 (not available for AF/S)

(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)

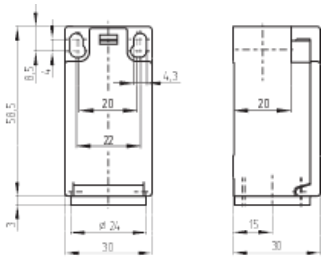
**1637** Gold-plated contacts

**Pictures**

| **Photo/Product/Catalogue** | |
|---|---|
|  | ID: k236rf03<br><br>\| 139,2 kB \| .png \| 74.083 x 159.103 mm - 210 x 451 Pixel - 72 dpi<br>\| 310,6 kB \| .jpg \| 125.589 x 270.228 mm - 356 x 766 Pixel - 72 dpi |

| **Photo/Product/Catalogue** | |
|---|---|
|  | ID: k236sf01<br><br>\| 154,5 kB \| .jpg \| 111.478 x 227.189 mm - 316 x 644 Pixel - 72 dpi<br>\| 121,0 kB \| .png \| 74.083 x 150.636 mm - 210 x 427 Pixel - 72 dpi |

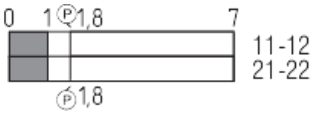
**Dimension/Product/Basic**



ID: 1-236g01

| 4,0 kB | .png | 74.083 x 73.378 mm - 210 x 208 Pixel - 72 dpi
| 115,0 kB | .jpg | 352.778 x 349.956 mm - 1000 x 992 Pixel - 72 dpi

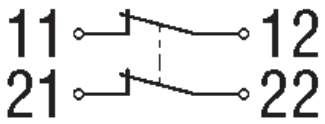
**Diagramm/Product/Travel**




ID: kr235s03

| 41,8 kB | .jpg | 352.778 x 117.475 mm - 1000 x 333 Pixel - 72 dpi
| 25,1 kB | .cdr |
| 1,7 kB | .png | 74.083 x 24.694 mm - 210 x 70 Pixel - 72 dpi

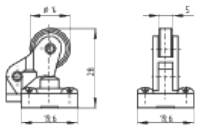
**Graphic/Product/Contact**




ID: k2o--k01

| 48,8 kB | .jpg | 352.778 x 125.236 mm - 1000 x 355 Pixel - 72 dpi
| 1,4 kB | .png | 74.083 x 26.458 mm - 210 x 75 Pixel - 72 dpi

**Dimension/Product/Actuator**



ID: 1r236g03

| 111,6 kB | .cdr |
| 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

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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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