

TV7H 236-02ZH

- **slim design**
- **Double-insulated**
- **Thermoplastic enclosure**
- **30 mm x 58,5 mm x 30 mm**
- **1 Cable entry M 20 x 1.5**
- **only for positioning tasks**
- **Mounting details to EN 50047**
- **Wide range of alternative actuators**
- **Lever angle adjustable in 10° steps**
- **Good resistance to oil and petroleum spirit**
- **Actuator heads can be repositioned by 4 x 90°**

Data

Ordering data	
	TV7H 236-02ZH
	101145102
eCl@ss number, Version 9.0	27-27-06-01
General data	
Product name	T 236 roller lever 7H
	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
Lever material	Metal film
Roller material	Plastic
Gross weight	89 g
General data - Features	
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	Roller lever
Mechanical life, minimum	20,000,000 Operations
Actuating speed, minimum	1,440 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
Actuating torque, minimum	0.2 Nm
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	158.5 mm
Length of sensor	49 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	Slow action with staggered contacts
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

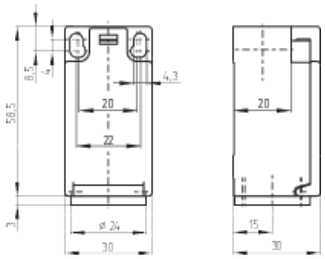
Photo/Product/Catalogue



ID: k236hf02

| 196,0 kB | .png | 74.083 x 247.65 mm - 210 x 702 Pixel - 72 dpi
| 278,2 kB | .jpg | 118.886 x 397.933 mm - 337 x 1128 Pixel - 72 dpi

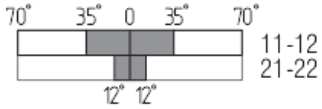
Dimension/Product/Basic



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

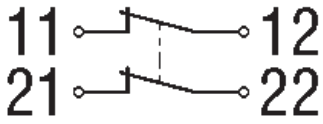
Diagramm/Product/Travel



ID: kh235s10

| 1,6 kB | .png | 74.083 x 23.989 mm - 210 x 68 Pixel - 72 dpi
| 16,0 kB | .cdr |
| 46,3 kB | .jpg | 352.778 x 115.006 mm - 1000 x 326 Pixel - 72 dpi

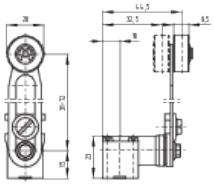
Graphic/Product/Contact



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: 1h236g06

| 102,2 kB | .jpg | 352.778 x 244.475 mm - 1000 x 693 Pixel - 72 dpi
| 9,7 kB | .png | 74.083 x 51.153 mm - 210 x 145 Pixel - 72 dpi
| 30,0 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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