



## TV12H236-11ZUE

- slim design
- 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
- 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

TV12H 236-11ZUE

101145107

eCl@ss number, Version 9.0

27-27-26-01

### General data

|                                      |                                                                        |
|--------------------------------------|------------------------------------------------------------------------|
| Product name                         | T 236 roller lever 12 H<br>IEC 60947-5-1<br>ISO 13849-1<br>BG-GS-ET-15 |
| Housing construction form            | Norm construction design                                               |
| Actuator type to DIN EN 50047        | A                                                                      |
| Enclosure material                   | Plastic, glass-fibre reinforced thermoplastic, self-extinguishing      |
| Material of the contacts, electrical | Silver                                                                 |
| Lever material                       | Metal film                                                             |
| Roller material                      | Plastic                                                                |
| Gross weight                         | 68 g                                                                   |

### General data - Features

|                              |     |
|------------------------------|-----|
| Safety functions             | Yes |
| Number of auxiliary contacts | 1   |
| Number of safety contacts    | 1   |

## 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

4,122 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

Positive break torque

0.2 Nm

## Mechanical data - Connection technique

Terminal Connector

Screw connection

0.75 mm<sup>2</sup>

2.5 mm<sup>2</sup>

Note (Cable section)

All indications about the cable section are including the conductor ferrules.

## Mechanical data - Dimensions

Height of sensor

108.5 mm

Length of sensor

46 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                                    | NO contact, NC contact                |
| Switching principle                                  | Slow action with overlapping 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

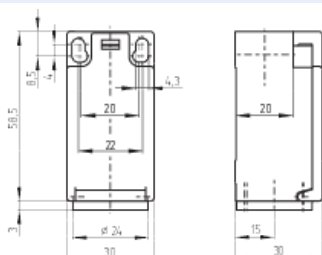


ID: k236hf04

| 294,0 kB | .jpg | 101.953 x 300.214 mm - 289 x 851  
Pixel - 72 dpi

| 229,2 kB | .png | 74.083 x 218.017 mm - 210 x 618  
Pixel - 72 dpi

### Dimension/Product/Basic



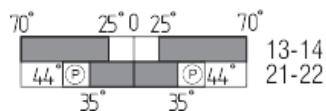
ID: 1-236g01

| 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: kh235s03



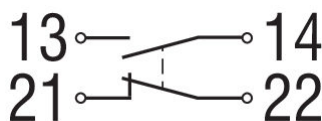
| 64,7 kB | .jpg | 352.778 x 111.831 mm - 1000 x 317

Pixel - 72 dpi

| 17,9 kB | .cdr |

| 2,2 kB | .png | 74.083 x 23.636 mm - 210 x 67 Pixel - 72 dpi

## Graphic/Product/Contact

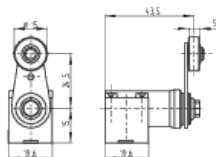


ID: k1o1sk01

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

Pixel - 72 dpi

## Dimension/Product/Actuator



ID: 1h236g04

| 81,3 kB | .jpg | 352.778 x 245.886 mm - 1000 x 697

Pixel - 72 dpi

| 79,1 kB | .cdr |

| 7,7 kB | .png | 74.083 x 51.506 mm - 210 x 146 Pixel - 72 dpi

K.A. Schmersal GmbH & Co. KG, Möddinghofe 3, D-42279 Wuppertal

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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