



TV1H 255-02ZH

- Metal enclosure
- 63 mm x 63,5 mm x 30 mm
- 3 cable entries 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

TV1H 255-02ZH

101174943

eCl@ss number, Version 9.0

27-27-26-01

General data

Product name	T 255 roller lever 1H IEC 60947-5-1 ISO 13849-1 BG-GS-ET-15
Housing construction form	Norm construction design
Actuator type to DIN EN 50047	A
Enclosure material	Zink
Enclosure coating material	painted
Material of the contacts, electrical	Silver
Lever material	Plastic
Roller material	Plastic

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

Roller lever

Mechanical life, minimum

20,000,000 Operations

Actuating speed, minimum

492 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 mm²

2.5 mm²

Note (Cable section)

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

Mechanical data - Dimensions

Height of sensor

110.5 mm

Length of sensor

42.5 mm

Width of sensor

63 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)5-(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 (Caution! According to EN 60204-1, the versions with connector must only be used in PELV circuits.)
ST-2310	M12 connector with B-coding (Caution! According to EN 60204-1, the versions with connector must only be used in PELV circuits.)

(7)

2574 Enclosure with L-shaped mounting holes (horizontally or vertically adjustable)

(8)

2138 Roller lever 7H for position switches with safety function

(9)

1637 Gold-plated contacts

Pictures

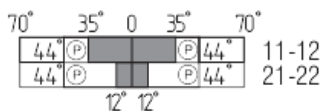
Photo/Product/Catalogue



ID: k255hf01

| 71,8 kB | .png | 73.731 x 114.3 mm - 209 x 324 Pixel - 72 dpi
| 908,8 kB | .jpg | 338.667 x 523.875 mm - 960 x 1485 Pixel - 72 dpi

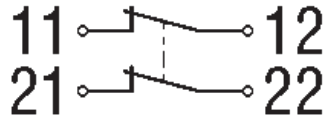
Diagramm/Product/Travel



ID: kh235s07

| 2,3 kB | .png | 74.083 x 23.989 mm - 210 x 68 Pixel - 72 dpi
| 17,7 kB | .cdr |
| 74,9 kB | .jpg | 352.778 x 115.006 mm - 1000 x 326 Pixel - 72 dpi

Graphic/Product/Contact

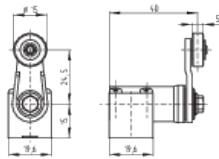


ID: k2o--k01

| 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: 1h236g01

| 87,7 kB | .cdr |
| 7,8 kB | .png | 74.083 x 51.153 mm - 210 x 145 Pixel
- 72 dpi

| 85,2 kB | .jpg | 352.778 x 244.475 mm - 1000 x 693
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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