



TV14H 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

TV14H 255-02ZH

101174976

eCI@ss number, Version 9.0

27-27-26-01

General data

Product name	T 255 roller lever 14 H IEC 60947-5-1 ISO 13849-1 BG-GS-ET-15
Housing construction form	Norm construction design
Enclosure material	Zink
Enclosure coating material	painted
Material of the contacts, electrical	Silver
Lever material	Metal film
Roller material	Plastic

General data - Features

Safety functions	Yes
Number of safety contacts	2

Safety appraisal

ISO 13849-1

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	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 mm² 2.5 mm²
Note (Cable section)	All indications about the cable section are including the conductor ferrules.

Mechanical data - Dimensions

Height of sensor	114 mm
Length of sensor	46 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
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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	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

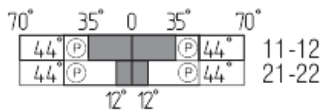


ID: k255hf05

| 73,2 kB | .png | 73.731 x 121.708 mm - 209 x 345
Pixel - 72 dpi

| 928,9 kB | .jpg | 338.667 x 557.742 mm - 960 x 1581
Pixel - 72 dpi

Diagramm/Product/Travel



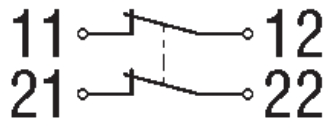
ID: kh235s07

| 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

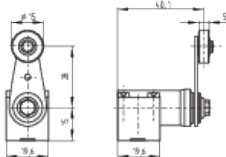


ID: k2o--k01

| 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: 1h236g05

| 25,9 kB | .cdr |

| 82,4 kB | .jpg | 352.778 x 245.181 mm - 1000 x 695
Pixel - 72 dpi

| 7,6 kB | .png | 74.083 x 51.506 mm - 210 x 146 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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