



TV1H235-11Z

- Metal enclosure
- 30 mm x 63,5 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

	TV1H 235-11Z
	101164167
EAN (European Article Number)	4030661204840
eCl@ss number, Version 9.0	27-27-26-01

Approval - Standards

cULus
cCSAus
CCC
EAC

General data

Product name	T 235 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
Gross weight	200 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
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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 mm ²
	2.5 mm ²
Note (Cable section)	All indications about the cable section are including the conductor ferrules.

Mechanical data - Dimensions

Height of sensor	111 mm
Length of sensor	42.5 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 Creep circuit element
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: k235hf01

| 218,9 kB | .jpg | 107.95 x 272.697 mm - 306 x 773
Pixel - 72 dpi
| 132,9 kB | .png | 74.083 x 186.972 mm - 210 x 530
Pixel - 72 dpi

Dimension/Product/Basic

| 114,7 kB | .jpg | 352.778 x 293.158 mm - 1000 x 831
Pixel - 72 dpi
| 4,0 kB | .png | 74.083 x 61.383 mm - 210 x 174 Pixel
- 72 dpi

Diagramm/Product/Travel

| 64,2 kB | .jpg | 352.778 x 113.594 mm - 1000 x 322
Pixel - 72 dpi
| 2,4 kB | .png | 74.083 x 23.989 mm - 210 x 68 Pixel -
72 dpi
| 25,6 kB | .cdr |

Graphic/Product/Contact

| 52,2 kB | .jpg | 352.778 x 143.581 mm - 1000 x 407
Pixel - 72 dpi

Dimension/Product/Actuator

| 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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