



TV10H235-20Z-M20

- Metal enclosure
- 30 mm x 63,5 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

	TV10H 235-20Z
	101091575
EAN (European Article Number)	4030661067018
eCl@ss number, Version 9.0	27-27-06-01

Approval - Standards

cULus
cCSAus
CCC
EAC

General data

Product name	T 235 rod lever 10H 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
Material of the rod	Plastic
Gross weight	230 g

General data - Features

Number of auxiliary contacts 2

Safety appraisal

Mission Time ISO 13849-1
20 Year(s)

Mechanical data

Actuating element Rod 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

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

Length x Width x Height Height of sensor: 98.5 mm (without rod)
Length of sensor 43.5 mm
Width of sensor 30 mm

Ambient conditions

Ambient temperature, minimum IP67
-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	Normally open contact (NO)
Switching principle	Creep circuit element
Switching frequency	5,000 /h

Notes

Note (General) Switch with 2 NO contacts are not for security tasks

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: k235hf03

| 415,3 kB | .jpg | 110.419 x 416.983 mm - 313 x 1182

Pixel - 72 dpi

| 236,5 kB | .png | 74.083 x 279.753 mm - 210 x 793

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

| 1,6 kB | .png | 74.083 x 22.931 mm - 210 x 65 Pixel - 72 dpi
| 49,0 kB | .jpg | 352.778 x 109.714 mm - 1000 x 311 Pixel - 72 dpi
| 24,5 kB | .cdr |

Graphic/Product/Contact

| 51,9 kB | .jpg | 352.778 x 135.819 mm - 1000 x 385
Pixel - 72 dpi

Dimension/Product/Actuator

| 72,1 kB | .cdr |
| 3,9 kB | .png | 74.083 x 51.506 mm - 210 x 146 Pixel
- 72 dpi
| 83,4 kB | .jpg | 352.778 x 245.886 mm - 1000 x 697
Pixel - 72 dpi

```
+010012amSunday.31am31Europe/BerlinCET2701Europe/BerlinJanuary2021Sun, 31 Jan 2021 03:27:12
+010001am31
```