

## ZV10H235-11Z



- 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°
- Snap action with constant contact pressure up to switching point

### Data

#### Ordering data

|                               |               |
|-------------------------------|---------------|
|                               | ZV10H 235-11Z |
|                               | 101168162     |
| EAN (European Article Number) | 4030661221083 |
| eCl@ss number, Version 9.0    | 27-27-06-01   |

#### Approval - Standards

cULus  
cCSAus  
CCC  
EAC

#### General data

|                                      |                          |
|--------------------------------------|--------------------------|
| Product name                         | Z 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        | 210 g      |

#### General data - Features

|                              |   |
|------------------------------|---|
| 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         | Rod lever                                               |
| Mechanical life, minimum  | 20,000,000 Operations                                   |
| Actuating speed, minimum  | 687 mm/min                                              |
| Actuating speed, maximum  | 1 m/s                                                   |
| Note (Actuating speed)    | Actuating speed with actuating angle 30° to switch axis |
| 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

|                              |        |
|------------------------------|--------|
|                              | 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 Snap switch element  
Bounce duration, maximum 3 ms  
Switching frequency 5,000 /h  
Switchover time, maximum 5.5 ms

## 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

