

## ZV14H236-02Z-M20



- Double-insulated
- Thermoplastic enclosure
- 30 mm x 58,5 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°
- Snap action with constant contact pressure up to switching point

### Data

#### Ordering data

|                               |               |
|-------------------------------|---------------|
|                               | ZV14H 236-02Z |
|                               | 101148704     |
| EAN (European Article Number) | 4030661147987 |
| eCl@ss number, Version 9.0    | 27-27-26-01   |

#### Approval - Standards

cULus  
cCSAus  
CCC  
EAC

#### General data

|                                      |                                                                       |
|--------------------------------------|-----------------------------------------------------------------------|
| Product name                         | Z 236 roller lever 14H<br>IEC 60947-5-1<br>ISO 13849-1<br>BG-GS-ET-15 |
| Housing construction form            | Norm construction design                                              |
| Enclosure material                   | Plastic, glass-fibre reinforced thermoplastic, self-extinguishing     |
| Material of the contacts, electrical | Silver                                                                |
| Lever material                       | Metal film                                                            |
| Roller material                      | Plastic                                                               |

|              |      |
|--------------|------|
| Gross weight | 55 g |
|--------------|------|

#### 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 | 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 |
|---------------------------|--------|

|                       |        |
|-----------------------|--------|
| Positive break torque | 0.2 Nm |
|-----------------------|--------|

#### Mechanical data - Connection technique

|                    |                  |
|--------------------|------------------|
| Terminal Connector | Screw connection |
|--------------------|------------------|

0.75 mm<sup>2</sup>

2.5 mm<sup>2</sup>

|                      |                                                                               |
|----------------------|-------------------------------------------------------------------------------|
| Note (Cable section) | All indications about the cable section are including the conductor ferrules. |
|----------------------|-------------------------------------------------------------------------------|

#### Mechanical data - Dimensions

|                  |        |
|------------------|--------|
| Height of sensor | 112 mm |
|------------------|--------|

|                  |       |
|------------------|-------|
| Length of sensor | 46 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                                    | Opener (NC)         |
| 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)6-(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

**ST-2310** M12 connector with B-coding

(7)

**1297** Enclosure with transverse slotted holes

(8)

**2138** Roller lever 7H for position switches with safety function

(9)

**1637** Gold-plated contacts

## Pictures

### Photo/Product/Catalogue



ID: k236hf05

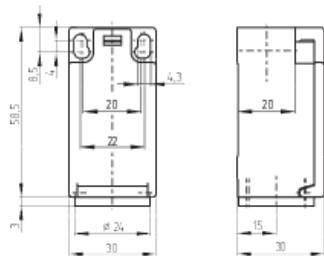
| 282,8 kB | .jpg | 106.539 x 320.675 mm - 302 x 909

Pixel - 72 dpi

| 182,4 kB | .png | 74.083 x 222.956 mm - 210 x 632

Pixel - 72 dpi

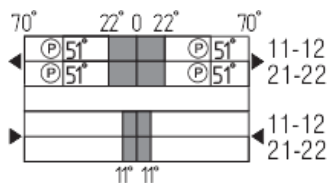
### Dimension/Product/Basic



ID: 1-236g01

| 4,0 kB | .png | 74.083 x 73.378 mm - 210 x 208 Pixel  
- 72 dpi  
| 115,0 kB | .jpg | 352.778 x 349.956 mm - 1000 x 992  
Pixel - 72 dpi

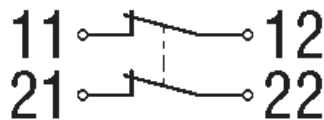
## Diagramm/Product/Travel



ID: kh235s05

| 27,5 kB | .cdr |  
| 104,1 kB | .jpg | 352.778 x 193.322 mm - 1000 x 548  
Pixel - 72 dpi  
| 3,1 kB | .png | 74.083 x 40.569 mm - 210 x 115 Pixel  
- 72 dpi

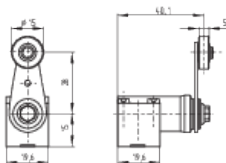
## Graphic/Product/Contact



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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