



## Z4V7H336-11Z-2138

- Double-insulated
- Design to EN 50041
- Thermoplastic enclosure
- 1 Cable entry M 20 x 1.5
- 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

|                               |                    |
|-------------------------------|--------------------|
|                               | Z4V7H 336-11Z-2138 |
|                               | 101166374          |
| EAN (European Article Number) | 4030661214504      |
| eCl@ss number, Version 9.0    | 27-27-26-01        |

### Approval - Standards

cULus  
CCC  
EAC

### General data

|                                      |                                                                   |
|--------------------------------------|-------------------------------------------------------------------|
| Product name                         | 336 roller lever 7H-2138                                          |
| 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                         | 170 g                                                             |

### General data - Features

|                  |     |
|------------------|-----|
| Safety functions | Yes |
|------------------|-----|

|                              |   |
|------------------------------|---|
| Number of auxiliary contacts | 1 |
| Number of safety contacts    | 1 |

### Safety appraisal

|              |                                            |
|--------------|--------------------------------------------|
|              | BG-GS-ET-15<br>ISO 13849-1<br>EN 60947-5-1 |
| 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  | 30,000,000 Operations                                   |
| Actuating speed, maximum  | 2.5 m/s                                                 |
| Note (Actuating speed)    | Actuating speed with actuating angle 30° to switch axis |
| Note Bounce duration      | Bounce duration in accordance with actuating speed      |
| Actuating torque, minimum | 0.3 Nm                                                  |

### Mechanical data - Connection technique

|                      |                                                                               |
|----------------------|-------------------------------------------------------------------------------|
| Terminal Connector   | Screw connection<br>0.75 mm²<br>2.5 mm²                                       |
| Note (Cable section) | All indications about the cable section are including the conductor ferrules. |

### Mechanical data - Dimensions

|                  |          |
|------------------|----------|
| Height of sensor | 173.5 mm |
| Length of sensor | 57 mm    |
| Width of sensor  | 40.5 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                           | 4 A                    |
| Switching element                                    | NO contact, NC contact |
| Switching principle                                  | Snap switch element    |
| Switching frequency                                  | 5,000 /h               |
| Switchover time, maximum                             | 2 ms                   |

## Ordering code

Product type description:

(1)(2) 336-(3)Z(4)-(5)-(6)-(7)

(1)

**Z** Snap action

**T** Slow action (not available for AF/S)

(2)

**S** Plunger S

**R** Roller plunger R

**H** Roller lever H

**10H** Rod lever 10H

**7H** Roller lever 7H

**1K** Offset roller lever 1K

**3K** Angle roller lever 3K

**RMS** Brass roller

(3)

**11** 1 NO contacts/1 NC contact

**02** 2 NC contact

**20** 2 NO contacts, (switches with 2 NO contacts are not suitable for safety applications)

**01/01** 1 NC contact left / 1 NC contact right

(4)

**H** Slow action with staggered contacts

**UE** Slow action with overlapping contacts

(5)

- without** Cable entry M20
- NPT** Cable entry NPT 1/2"
- ST** M12 connector with A-coding
- ST-2310** M12 connector with B-coding

- (6)
- 2138** Roller lever 7H for position switches with safety function

- (7)
- 1637** Gold-plated contacts

Pictures

Photo/Product/Catalogue

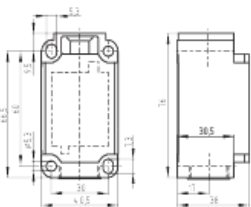


ID: k336hf16

| 988,9 kB | .jpg | 258.233 x 762 mm - 732 x 2160  
Pixel - 72 dpi

| 155,5 kB | .png | 74.083 x 218.369 mm - 210 x 619  
Pixel - 72 dpi

Dimension/Product/Basic



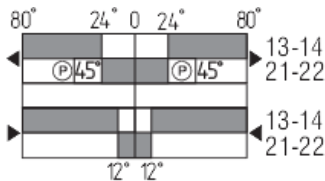
ID: 1-336g01

| 51,4 kB | .cdr |

| 107,0 kB | .jpg | 352.778 x 245.181 mm - 1000 x 695  
Pixel - 72 dpi

| 4,1 kB | .png | 74.083 x 51.506 mm - 210 x 146 Pixel  
- 72 dpi

Diagramm/Product/Travel



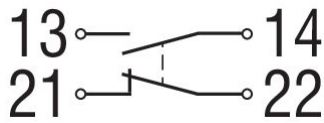
ID: kh335s02

| 3,0 kB | .png | 74.083 x 40.569 mm - 210 x 115 Pixel  
- 72 dpi

| 98,4 kB | .jpg | 352.778 x 193.322 mm - 1000 x 548  
Pixel - 72 dpi

| 25,4 kB | .cdr |

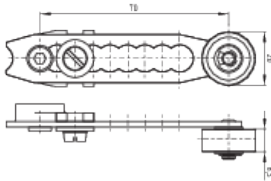
**Graphic/Product/Contact**



ID: k1o1sk01

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

**Dimension/Product/Actuator**



ID: 17h--g01

| 11,0 kB | .png | 74.083 x 51.506 mm - 210 x 146

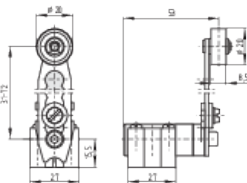
Pixel - 72 dpi

| 111,6 kB | .jpg | 352.778 x 245.886 mm - 1000 x 697

Pixel - 72 dpi

| 34,0 kB | .cdr |

**Dimension/Product/Actuator**



ID: 1h336g02

| 10,3 kB | .png | 74.083 x 52.211 mm - 210 x 148

Pixel - 72 dpi

| 88,3 kB | .cdr |

| 102,9 kB | .jpg | 352.778 x 248.003 mm - 1000 x 703

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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