



## PS216-T11-H200

- thermoplastic enclosure with foldable latching cover
- Quick connection technology as connection terminals rotated by 45°
- Simple and quick to adjust the control elements by 45°.
- cable entry 1 x M20 x 1,5
- Design to EN 50047
- LED version available

## Data

### Ordering data

|                               |                |
|-------------------------------|----------------|
| Product type description      | PS216-T11-H200 |
| Article number (order number) | 103015042      |
| EAN (European Article Number) | 4030661502014  |
| eCl@ss number, version 12.0   | 27-27-26-01    |
| eCl@ss number, version 11.0   | 27-27-26-01    |
| eCl@ss number, version 9.0    | 27-27-26-01    |
| ETIM number, version 7.0      | EC000030       |
| ETIM number, version 6.0      | EC000030       |

### Approvals - Standards

|              |       |
|--------------|-------|
| Certificates | cULus |
|              | CCC   |
|              | EAC   |

### General data

|                                      |                                 |
|--------------------------------------|---------------------------------|
| Standards                            | EN IEC 60947-5-1                |
| Housing construction form            | Norm construction design        |
| Actuator type to EN 50047            | A                               |
| Enclosure material                   | Plastic, glass-fibre-reinforced |
| Material of the contacts, electrical | Silver                          |
| Gross weight                         | 122 g                           |

## General data - Features

|                              |     |
|------------------------------|-----|
| Safety functions             | Yes |
| Number of auxiliary contacts | 1   |
| Number of safety contacts    | 1   |

## Safety classification

|              |                |
|--------------|----------------|
| Standards    | EN ISO 13849-1 |
| Mission time | 20 Year(s)     |

## Safety classification - Safety outputs

|                                               |                       |
|-----------------------------------------------|-----------------------|
| B <sub>10D</sub> Normally-closed contact (NC) | 20,000,000 Operations |
|-----------------------------------------------|-----------------------|

## Mechanical data

|                               |                       |
|-------------------------------|-----------------------|
| Actuating element             | Roller lever H200     |
| Mechanical life, minimum      | 10,000,000 Operations |
| Positive break force, minimum | 40 N                  |
| Actuating speed, minimum      | 60 mm/min             |
| Actuating speed, maximum      | 1 m/s                 |

## Mechanical data - Connection technique

|                        |                           |
|------------------------|---------------------------|
| Termination            | Screw terminals M20 x 1.5 |
| Cable section, minimum | 0.34 mm <sup>2</sup>      |
| Cable section, maximum | 1.5 mm <sup>2</sup>       |

## Mechanical data - Dimensions

|                  |          |
|------------------|----------|
| Length of sensor | 32.5 mm  |
| Width of sensor  | 31 mm    |
| Height of sensor | 112.5 mm |

## Ambient conditions

|                              |              |
|------------------------------|--------------|
| Degree of protection         | IP67<br>IP66 |
| Ambient temperature, minimum | -30 °C       |
| Ambient temperature, maximum | +80 °C       |

## Ambient conditions - Insulation values

|                                           |       |
|-------------------------------------------|-------|
| Rated insulation voltage $U_i$            | 300 V |
| Rated impulse withstand voltage $U_{imp}$ | 4 kV  |

## Electrical data

|                                      |                             |
|--------------------------------------|-----------------------------|
| Thermal test current                 | 10 A                        |
| Required rated short-circuit current | 400 A                       |
| Utilisation category AC-15           | 240 VAC                     |
| Utilisation category AC-15           | 3 A                         |
| Utilisation category DC-13           | 24 VDC                      |
| Utilisation category DC-13           | 3 A                         |
| Switching element                    | 1 NO contact, 1 NC contacts |
| Switching principle                  | Slow action                 |

Switching frequency

5,000 /h

## Ordering code

Product type description:

PS2(2)-(3)-(4)-(5)-(6)-(7)-(8)-(9)-(10)-(11)-(12)

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|                |                                                 |
|----------------|-------------------------------------------------|
| <b>without</b> | non-EX version                                  |
| <b>EX</b>      | Types of protection Ex d and t, to Zone 1/21    |
| <b>EXI</b>     | Types of protection Ex i and t, up to Zone 1/21 |

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|            |                                      |
|------------|--------------------------------------|
| <b>215</b> | Metal enclosure                      |
| <b>216</b> | Thermoplastic enclosure              |
| <b>226</b> | Plastic housing with 2 cable entries |

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|                |                   |
|----------------|-------------------|
| <b>without</b> | L-hole (standard) |
| <b>L</b>       | elongated hole    |

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|             |                                                       |
|-------------|-------------------------------------------------------|
| <b>Z11</b>  | Snap action 1 NO contact / 1 NC contact               |
| <b>Z02</b>  | Snap action 2 NC contacts                             |
| <b>Z12</b>  | Snap action 1 NO contact / 2 NC contact               |
| <b>Z11R</b> | Snap action 1 NO contact / 1 NC contact with latching |
| <b>Z01R</b> | Snap action 1 NC contact with latching                |
| <b>Z02R</b> | Snap action 2 NC contacts with latching               |
| <b>T11</b>  | Slow action 1 NO contact / 1 NC contact               |
| <b>T02</b>  | Slow action 2 NC contacts                             |
| <b>T20</b>  | Slow action 2 NO contact                              |
| <b>T12</b>  | Slow action 1 NO contact / 2 NC contact               |

|              |                                                                   |
|--------------|-------------------------------------------------------------------|
| <b>T21</b>   | Slow action 2 NO contact / 1 NC contact                           |
| <b>T03</b>   | Slow action 3 NC contacts                                         |
| <b>T11UE</b> | Slow action 1 NO contact / 1 NC contact with overlapping contacts |
| <b>T02H</b>  | Slow action 2 NC contacts with staggered contacts                 |
| <b>T11K</b>  | Slow action 1 NO contact + 1 NC contact - short-stroke            |
| <b>T10</b>   | Slow action 1 NO contact                                          |
| <b>T02K</b>  | Slow action 2 NO contacts short-stroke                            |
| <b>T20H</b>  | Slow action 2 NO contacts staggered                               |

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|                |                                   |
|----------------|-----------------------------------|
| <b>without</b> | Contacts silver plated (Standard) |
| <b>A1</b>      | Gold contacts 0,3 µm              |
| <b>A2</b>      | Gold contacts 1,0 µm              |
| <b>A3</b>      | Gold contacts 3,0 µm              |

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|                |                           |
|----------------|---------------------------|
| <b>without</b> | without indication light  |
| <b>G</b>       | integrated status display |

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|                |                                       |
|----------------|---------------------------------------|
| <b>without</b> | Cable entry M20                       |
| <b>M16</b>     | cable entry M16                       |
| <b>ST</b>      | Connector plug M12 - plastic - bottom |
| <b>STR</b>     | Connector plug M12, right             |
| <b>STL</b>     | Connector plug M 12, left             |
| <b>STM</b>     | Connector plug M12, metal             |

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|             |                     |
|-------------|---------------------|
| <b>S200</b> | plunger S200 Ø 6 mm |
| <b>S210</b> | Plunger Ø 8,6 mm    |
| <b>S211</b> | Plunger Ø 10,3 mm   |

|             |                                                                                                  |
|-------------|--------------------------------------------------------------------------------------------------|
| <b>S221</b> | Plunger Ø 9,8 mm                                                                                 |
| <b>R200</b> | Roller plunger R200                                                                              |
| <b>R201</b> | Roller plunger - stainless steel roller Ø 9,5mm                                                  |
| <b>R210</b> | Roller plunger - plastic roller Ø 12mm                                                           |
| <b>K201</b> | Roller plunger - stainless steel roller - width 5,3 mm - Ø 12mm                                  |
| <b>K200</b> | Offset roller lever - plastic roller- width 5.3 mm - Ø 12 mm                                     |
| <b>K201</b> | Roller plunger - stainless steel roller - width 5,3 mm - Ø 12mm                                  |
| <b>K210</b> | Offset roller lever - plastic roller- width 5mm - Ø 14mm                                         |
| <b>K211</b> | Offset roller lever - stainless steel roller - width 5mm - Ø 14mm                                |
| <b>K220</b> | Offset roller lever - plastic roller- width 7.6 mm - Ø 14 mm                                     |
| <b>K230</b> | Angle roller lever - plastic roller Ø 14 mm                                                      |
| <b>K231</b> | Roller plunger - stainless steel roller Ø 14mm (Standard)                                        |
| <b>K240</b> | Angle roller lever with plastic roller Ø 22 mm - right-bent                                      |
| <b>K250</b> | Angle roller lever with plastic roller Ø 22 mm - left-bent                                       |
| <b>H200</b> | Roller lever - plastic roller Ø 16 m - lever length 24 mm                                        |
| <b>H202</b> | Roller lever - brass roller Ø 16mm - lever length 24mm (Standard)                                |
| <b>H230</b> | Roller lever - plastic roller Ø 16mm - lever length 28 mm                                        |
| <b>H232</b> | Roller lever - brass roller Ø 16mm - lever length 28 mm                                          |
| <b>H236</b> | Roller lever - rubber roller Ø 16mm - lever length 28 mm                                         |
| <b>N200</b> | Roller lever 2 mm Toothing (24...26mm) - Plastic roller Ø 20 mm - Width 9.8 mm                   |
| <b>N201</b> | Roller lever adjustable in 2 mm steps (24...66mm) - stainless steel roller Ø 20mm - width 9,8 mm |
| <b>N202</b> | Roller lever - adjustable in 2 mm steps (24...66mm) - brass roller Ø 20mm - width 9,8 mm         |
| <b>N206</b> | Roller lever - adjustable in 2 mm steps (24...66mm) - rubber roller Ø 50mm - width 16 mm         |

|             |                                                                                                                          |
|-------------|--------------------------------------------------------------------------------------------------------------------------|
| <b>N210</b> | Roller lever - adjustable in 2 mm steps (24...66mm) - plastic roller Ø 20mm - width 5 mm - long- angled - locking washer |
| <b>N280</b> | Roller lever -adjustable in 2 mm steps (24...66mm) - plastic roller Ø 20mm - width 5 mm - long - locking washer          |
| <b>J200</b> | Rod lever - plastic - 200mm -Ø 6mm                                                                                       |
| <b>J201</b> | Rod lever - stainless steel - 200mm -Ø 6mm (Standard)                                                                    |
| <b>J203</b> | Rod lever - aluminium - 200mm -Ø 6mm                                                                                     |
| <b>F230</b> | Spring rod - stainless steel - 150.4 mm                                                                                  |
| <b>F231</b> | Spring rod - stainless steel - 70.2 mm                                                                                   |
| <b>A200</b> | Special actuating bolt - plastic - valve control                                                                         |

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|                |                               |
|----------------|-------------------------------|
| <b>without</b> | no intent rotation (Standard) |
| <b>U1</b>      | intent rotation 45°           |
| <b>U2</b>      | intent rotation 90°           |
| <b>U3</b>      | intent rotation 135°          |
| <b>U4</b>      | intent rotation 180°          |
| <b>U5</b>      | intent rotation 225°          |
| <b>U6</b>      | intent rotation 275°          |
| <b>U7</b>      | intent rotation 315°          |

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|                |                              |
|----------------|------------------------------|
| <b>without</b> | no lever rotation (Standard) |
| <b>X1</b>      | lever rotation 15°           |
| <b>X2</b>      | lever rotation 30°           |
| <b>X3</b>      | lever rotation 45°           |
| <b>X4</b>      | lever rotation 60°           |
| <b>X5</b>      | lever rotation 75°           |
| <b>X6</b>      | lever rotation 90°           |
| <b>X7</b>      | lever rotation 105°          |
| <b>X8</b>      | lever rotation 120°          |

|            |                     |
|------------|---------------------|
| <b>X9</b>  | lever rotation 135° |
| <b>X10</b> | lever rotation 150° |
| <b>X11</b> | lever rotation 165° |
| <b>X12</b> | lever rotation 180° |
| <b>X13</b> | lever rotation 195° |
| <b>X14</b> | lever rotation 210° |
| <b>X15</b> | lever rotation 225° |
| <b>X16</b> | lever rotation 240° |
| <b>X17</b> | lever rotation 255° |
| <b>X18</b> | lever rotation 270° |
| <b>X19</b> | lever rotation 285° |
| <b>X20</b> | lever rotation 300° |
| <b>X21</b> | lever rotation 315° |
| <b>X22</b> | lever rotation 330° |
| <b>X23</b> | lever rotation 345° |

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|                |                           |
|----------------|---------------------------|
| <b>without</b> | Roller outside (Standard) |
| <b>I</b>       | Roller inside             |

(12)

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|                |                        |
|----------------|------------------------|
| <b>without</b> | -30...+80°C (Standard) |
| <b>T</b>       | -40...+80°C            |

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|                |               |
|----------------|---------------|
| <b>without</b> | Zone 2 and 22 |
| <b>3GD</b>     | Zone 2 and 22 |
| <b>2D</b>      | Zone 21       |
| <b>3D</b>      | Zone 22       |

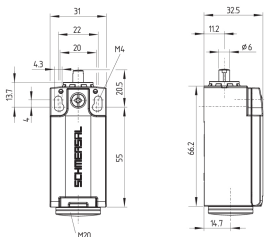
Pictures

Product picture (catalogue individual photo)



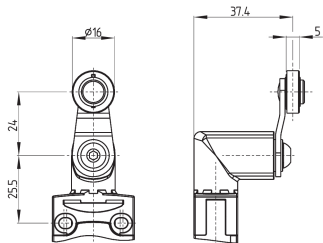
ID: kps2hf02  
| 685.1 kB | .jpg | 352.778 x 694.619 mm - 1000 x 1969 px - 72 dpi  
| 48.4 kB | .png | 74.083 x 145.697 mm - 210 x 413 px - 72 dpi

Dimensional drawing basic component



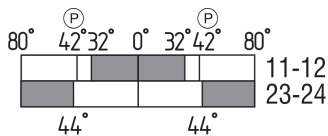
ID: kps2xg01  
| 4.4 kB | .png | 74.083 x 68.086 mm - 210 x 193 px - 72 dpi  
| 111.3 kB | .jpg | 352.778 x 323.85 mm - 1000 x 918 px - 72 dpi

Dimensional drawing actuator



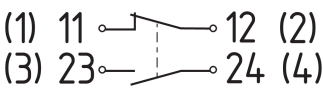
ID: kps11b09  
| 204.9 kB | .ai | 140.158 x 112.031 mm - 397 x 317 px - 72 dpi  
| 4.4 kB | .png | 74.083 x 59.267 mm - 210 x 168 px - 72 dpi  
| 132.3 kB | .jpg | 352.778 x 267.406 mm - 1000 x 758 px - 72 dpi

Switch travel diagram



ID: kps11s58  
| 2.1 kB | .png | 74.083 x 30.339 mm - 210 x 86 px - 72 dpi  
| 69.1 kB | .jpg | 352.778 x 144.639 mm - 1000 x 410 px - 72 dpi

Diagram



ID: kps2xk09  
| 57.7 kB | .jpg | 352.778 x 110.067 mm - 1000 x 312 px - 72 dpi  
| 2.7 kB | .png | 74.083 x 22.931 mm - 210 x 65 px - 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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