

## PS316-Z11-N300



- Design to EN 50041
- cable entry 1 x M20 x 1,5
- length adjustable in 2 mm steps
- Lever angle adjustable in 15° steps
- thermoplastic enclosure with foldable latching cover
- Simple and quick to adjust the control elements by 45°.
- Quick connection technology as connection terminals rotated by 45°

### Data

#### Ordering data

PS316-Z11-N300

103015141

EAN (European Article Number)

4030661502908

#### Approval - Standards

cULus

CCC

EAC

#### General data

Product name PS316 with roller lever N300

IEC 60947-5-1

Housing construction form

Norm construction design

Enclosure material

Plastic, glass-fibre-reinforced

Material of the contacts, electrical

Silver

Gross weight

163.5 g

#### General data - Features

Safety functions

Yes

|                              |   |
|------------------------------|---|
| 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             | Roller lever N300     |
| Mechanical life, minimum      | 10,000,000 Operations |
| Positive break force, minimum | 50 N                  |
| Actuating speed, minimum      | 10 mm/min             |
| Actuating speed, maximum      | 1 m/s                 |

#### Mechanical data - Connection technique

|                    |                      |
|--------------------|----------------------|
| Terminal Connector | Screw connection     |
|                    | 0.34 mm <sup>2</sup> |
|                    | 1.5 mm <sup>2</sup>  |

#### Mechanical data - Dimensions

|                  |        |
|------------------|--------|
| Height of sensor | 168 mm |
| Length of sensor | 37 mm  |
| Width of sensor  | 41 mm  |

#### Ambient conditions

|                              |        |
|------------------------------|--------|
|                              | IP66   |
|                              | IP67   |
| Ambient temperature, minimum | -30 °C |
| Ambient temperature, maximum | +80 °C |

#### Ambient conditions - Insulation value

|                                 |      |
|---------------------------------|------|
| Rated impulse withstand voltage | 4 kV |
|---------------------------------|------|

#### Electrical data

|                                                      |         |
|------------------------------------------------------|---------|
| Thermal test current                                 | 10 A    |
| Required rated short-circuit current to EN 60947-5-1 | 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        | Snap switch element         |
| Switching frequency        | 5,000 /h                    |

## Ordering code

Product type description:

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

(1)

**without** non-EX version

**EX** Types of protection Ex d and t, to Zone 1/21

**EXI** Types of protection Ex i and t, up to Zone 1/21

(2)

**315** Metal enclosure

**316** Thermoplastic enclosure

(3)

**without** L-hole (standard)

**L** elongated hole

(4)

**Z11** Snap action 1 NO contact / 1 NC contact

**Z02** Snap action 2 NC contacts

**Z12** Snap action 1 NO contact / 2 NC contact

**Z11R** Snap action 1 NO contact / 1 NC contact with latching

**Z01R** Snap action 1 NC contact with latching

**Z02R** Snap action 2 NC contacts with latching

**T11** Slow action 1 NO contact / 1 NC contact

**T02** Slow action 2 NC contacts

**T20** Slow action 2 NO contact

**T12** Slow action 1 NO contact / 2 NC contact

**T21** Slow action 2 NO contact / 1 NC contact

**T03** Slow action 3 NC contacts

**T11UE** Slow action 1 NO contact / 1 NC contact with overlapping contacts

**T02H** Slow action 2 NC contacts with staggered contacts

**T11K** Slow action 1 NO contact + 1 NC contact - short-stroke

**T10** Slow action 1 NO contact

**T02K** Slow action 2 NO contacts short-stroke

**T20H** Slow action 2 NO contacts staggered

(5)

**without** Contacts silver plated (Standard)

**A1** Gold contacts 0,3 µm

**A2** Gold contacts 1,0 µm

**A3** Gold contacts 3,0 µm

(6)

**without** without indication light

**G** integrated status display

(7)

**without** Cable entry M20

**ST** Connector plug M12 - plastic - bottom

**STM** Connector plug M12, metal

(8)

**S200** plunger S200 Ø 6 mm

**S300** Plunger - plastic - tappet width Ø 9 mm

**S310** Plunger - plastic - tappet width Ø 9 mm - with bellows

**R300** Roller plunger - plastic roller - width 4.6 mm

**R302** Roller plunger - brass roller - width 4.6 mm

**R310** Roller plunger - plastic roller - width 4.6 mm

**K360** Angle roller lever with plastic roller Ø 20 mm - left-bent

**K370** Angle roller lever with plastic roller Ø 20 mm - right-bent

**H300** Roller lever - plastic roller Ø 25 mm

**H301** Roller lever - stainless steel roller Ø 25 mm

**H302** Roller lever - brass roller Ø 25 mm

**H310** Roller lever - plastic roller Ø 20 mm

**H311** Roller lever - stainless steel roller Ø 20 mm

**H312** Roller lever - brass roller Ø 20mm

**H326** Roller lever - rubber roller Ø 20mm

**N300** Roller lever - plastic roller Ø 25 mm

**N301** Roller lever - stainless steel roller Ø 20 mm

**N306** Roller lever - rubber roller Ø 50mm

**N360** Roller lever - plastic roller Ø 20 mm - width 9.8 mm - long

**N370** Roller lever - plastic roller Ø 20 mm - width 9.8 mm - very long

**J300** Rod lever - plastic - 200mm -Ø 6mm

**F230** Spring rod - stainless steel - 150.4 mm

**F231** Spring rod - stainless steel - 70.2 mm

**A200** Special actuating bolt - plastic - valve control

(9)

**without** no intent rotation (Standard)

**U1** intent rotation 45°

**U2** 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° |

(10)

**without** 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° |

(11)

**without** Roller outside (Standard)

|          |               |
|----------|---------------|
| <b>I</b> | Roller inside |
|----------|---------------|

(12)

**without** -30...+80°C (Standard)

|          |             |
|----------|-------------|
| <b>T</b> | -40...+80°C |
|----------|-------------|

(13)

(14)

**without** Zone 2 and 22

|            |               |
|------------|---------------|
| <b>3GD</b> | Zone 2 and 22 |
|------------|---------------|

**2D**      Zone 21

**3D**      Zone 22

## Pictures

## Photo/Product/Catalogue



ID: kps3nf02

| 1,0 MB | .jpg | 352.778 x 784.931 mm - 1000 x 2225

Pixel - 72 dpi

| 66,2 kB | .png | 74.083 x 164.747 mm - 210 x 467

Pixel - 72 dpi

## Photo/Product/Catalogue



ID: kps3nf03

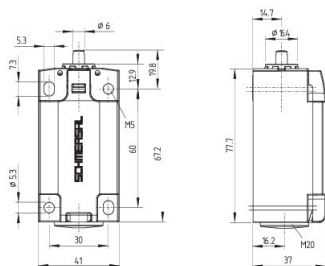
| 46,0 kB | .png | 74.083 x 136.525 mm - 210 x 387

Pixel - 72 dpi

| 579,1 kB | .jpg | 352.778 x 650.875 mm - 1000 x

1845 Pixel - 72 dpi

### Dimension/Product/Basic

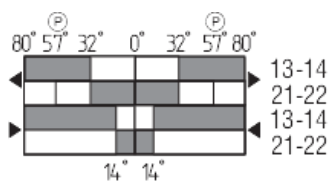


ID: kps3xg05

| 123,9 kB | .jpg | 352.778 x 289.278 mm - 1000 x 820

Pixel - 72 dpi

### Diagramm/Product/Travel



ID: kps31s18

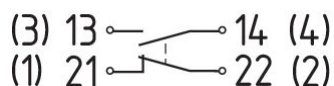
| 94,2 kB | .jpg | 352.778 x 190.147 mm - 1000 x 539

Pixel - 72 dpi

| 2,8 kB | .png | 74.083 x 39.864 mm - 210 x 113 Pixel

- 72 dpi

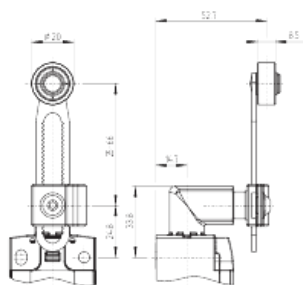
## Graphic/Product/Contact



ID: kps2xk01

| 58,0 kB | .jpg | 352.778 x 111.478 mm - 1000 x 316  
Pixel - 72 dpi

## Dimension/Product/Actuator



ID: kps3xb06

| 169,9 kB | .jpg | 352.778 x 338.667 mm - 1000 x 960  
Pixel - 72 dpi  
| 5,7 kB | .png | 74.083 x 70.203 mm - 210 x 199 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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