



## PS116-Z11-L200-R200

- Pre-wired cable bottom, 2
- Snap action 1 Normally open contact (NO) / 1 Opener (NC)
- Thermoplastic enclosure
- Symmetric enclosure
- Protection class IP66, IP67
- plastic roller Ø 9,5 mm

## Data

### Ordering data

|                               |                     |
|-------------------------------|---------------------|
| Product type description      | PS116-Z11-L200-R200 |
| Article number (order number) | 103006635           |
| EAN (European Article Number) | 4030661442662       |
| 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                                                        |
| Terminal (mechanical)                | bottom                                                                  |
| Housing construction form            | Norm construction design                                                |
| Actuator type to EN 50047            | c                                                                       |
| Enclosure material                   | Plastic, glass-fibre reinforced thermoplastic, zinc die-cast, chromated |
| Material of the contacts, electrical | Silver                                                                  |
| Gross weight                         | 187 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 plunger R200   |
| Mechanical life, minimum      | 10,000,000 Operations |
| Actuating force, minimum      | 10 N                  |
| Positive break force, minimum | 40 N                  |
| Actuating speed, minimum      | 10 mm/min             |
| Actuating speed, maximum      | 0.5 m/s               |

|                           |        |
|---------------------------|--------|
| Actuating torque, minimum | 0.2 Nm |
| Positive break torque     | 0.6 Nm |

### Mechanical data - Connection technique

|                    |                     |
|--------------------|---------------------|
| Termination        | Cable, 4-pole       |
| Length of cable    | 2 m                 |
| Wire cross-section | 0.5 mm <sup>2</sup> |
| Cable type         | LiYY                |

### Mechanical data - Dimensions

|                    |         |
|--------------------|---------|
| Length of sensor   | 16.6 mm |
| Width of sensor    | 31 mm   |
| Height of sensor   | 74.1 mm |
| Diameter of Castor | 9.5 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 <sub>i</sub>          | 300 V |
| Rated impulse withstand voltage U <sub>imp</sub> | 4 kV  |

### Electrical data

|                      |     |
|----------------------|-----|
| Thermal test current | 5 A |
|----------------------|-----|

|                                      |                        |
|--------------------------------------|------------------------|
| Required rated short-circuit current | 1,000 A                |
| Utilisation category AC-15           | 240 VAC                |
| Utilisation category AC-15           | 3 A                    |
| Utilisation category DC-13           | 24 VDC                 |
| Utilisation category DC-13           | 1.5 A                  |
| Switching element                    | NO contact, NC contact |
| Switching principle                  | Snap action            |
| Bounce duration, maximum             | 3 ms                   |
| Switching frequency                  | 5,000 /h               |
| Switchover time, maximum             | 5.5 ms                 |

## Ordering code

Product type description:

PS116-(1)-(2)-(3)-(4)

(1)

|              |                                                                   |
|--------------|-------------------------------------------------------------------|
| <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>Z02R</b>  | Snap action 2 NC contacts with latching                           |
| <b>Z12R</b>  | Snap action 1 NO contact / 2 NC contact 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                 |

(2)

|              |                                           |
|--------------|-------------------------------------------|
| <b>L200</b>  | Connecting cable bottom, cable length 2 m |
| <b>LR200</b> | Connecting cable right, cable length 2 m  |
| <b>LR300</b> | Connecting cable right, cable length 3 m  |
| <b>LR500</b> | Connecting cable right, cable length 5 m  |
| <b>ST</b>    | Connector plug M12 - plastic - bottom     |
| <b>STR</b>   | Connector plug M12, right                 |

(3)

|             |                                                                                |
|-------------|--------------------------------------------------------------------------------|
| <b>S200</b> | plunger S200 Ø 6 mm                                                            |
| <b>R200</b> | Roller plunger R200                                                            |
| <b>K200</b> | Offset roller lever - plastic roller- width 5.3 mm - Ø 12 mm                   |
| <b>K210</b> | Offset roller lever - plastic roller- width 5mm - Ø 14mm                       |
| <b>K230</b> | Angle roller lever - plastic roller Ø 14 mm                                    |
| <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>N200</b> | Roller lever 2 mm Toothing (24...26mm) - Plastic roller Ø 20 mm - Width 9.8 mm |
| <b>J200</b> | Rod lever - plastic - 200mm -Ø 6mm                                             |

(4)

|          |                                        |
|----------|----------------------------------------|
| <b>0</b> | Material Castor/Lever: Plastic         |
| <b>1</b> | Material Castor/Lever: Stainless steel |
| <b>2</b> | Material Castor/Lever: Brass           |
| <b>3</b> | Material Castor/Lever: Aluminium       |
| <b>4</b> | Material Castor/Lever: Steel           |

## Pictures

**Product picture (catalogue individual photo)**

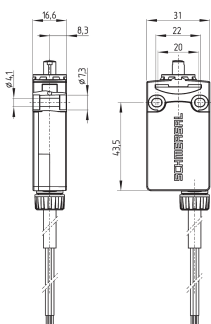


ID: kps1rf02

| 592.4 kB | .jpg | 352.778 x 681.214 mm - 1000 x 1931 px - 72 dpi

| 38.3 kB | .png | 74.083 x 142.875 mm - 210 x 405 px - 72 dpi

## Dimensional drawing basic component



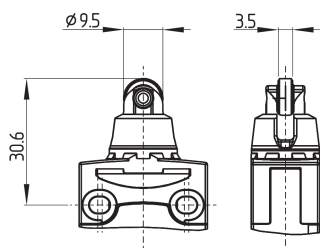
ID: kps11g03

| 271.3 kB | .ai | 200 x 200 mm - 566 x 566 px - 72 dpi

| 6.3 kB | .png | 74.083 x 113.242 mm - 210 x 321 px - 72 dpi

| 199.2 kB | .jpg | 352.425 x 539.75 mm - 999 x 1530 px - 72 dpi

## Dimensional drawing actuator



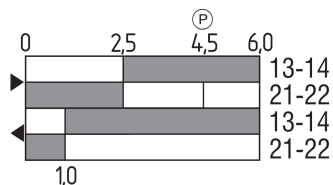
ID: kps11b02

| 352.8 kB | .ai | 126.86 x 84.573 mm - 359 x 239 px - 72 dpi

| 6.6 kB | .png | 74.083 x 49.389 mm - 210 x 140 px - 72 dpi

| 143.9 kB | .jpg | 352.778 x 272.344 mm - 1000 x 772 px - 72 dpi

## Switch travel diagram



ID: kps11s01

| 2.2 kB | .png | 74.083 x 41.628 mm - 210 x 118 px - 72 dpi

| 69.9 kB | .jpg | 352.778 x 198.261 mm - 1000 x 562 px - 72 dpi

## Diagram

(3) BN 13 (1) YE 21  14 PK (4) 22 WH (2)

ID: kps16k02

| 1.3 MB | .cdr |

| 56.4 kB | .jpg | 352.778 x 64.206 mm - 1000 x 182 px - 72 dpi

| 3.1 kB | .png | 74.083 x 13.406 mm - 210 x 38 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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