



## PS116-Z11-ST-S200

- Symmetric enclosure
- Thermoplastic enclosure
- connector plug M12, bottom
- Protection class IP66, IP67
- Snap action 1 Normally open contact (NO) / 1 Opener (NC)

### Data

#### Ordering data

|                               |                   |
|-------------------------------|-------------------|
|                               | PS116-Z11-ST-S200 |
|                               | 103006651         |
| EAN (European Article Number) | 4030661442822     |
| eCl@ss number, Version 9.0    | 27-27-26-01       |

#### Approval - Standards

cULus  
CCC  
EAC

#### General data

|                                      |                                                                         |
|--------------------------------------|-------------------------------------------------------------------------|
| Product name                         | PS116 plunger S200<br>IEC 60947-5-1                                     |
| Terminal (mechanical)                | bottom                                                                  |
| Housing construction form            | Norm construction design                                                |
| Actuator type to DIN EN 50047        | B                                                                       |
| Enclosure material                   | Plastic, glass-fibre reinforced thermoplastic, zinc die-cast, chromated |
| Material of the contacts, electrical | Silver                                                                  |
| Gross weight                         | 64 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             | plunger S200          |
| 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      | 1 m/s                 |

### Mechanical data - Connection technique

|                    |                       |
|--------------------|-----------------------|
| Terminal Connector | Connector M12, 4-pole |
| Connector position | Bottom                |

### Mechanical data - Dimensions

|                  |         |
|------------------|---------|
| Height of sensor | 64 mm   |
| Length of sensor | 16.6 mm |
| Width of sensor  | 31 mm   |

### Ambient conditions

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

### Ambient conditions - Insulation value

|                                 |        |
|---------------------------------|--------|
| Rated impulse withstand voltage | 2.5 kV |
|---------------------------------|--------|

### Electrical data

|                                                      |         |
|------------------------------------------------------|---------|
| Thermal test current                                 | 2.5 A   |
| Required rated short-circuit current to EN 60947-5-1 | 1,000 A |
| Utilisation category AC-15                           | 240 VAC |
| Utilisation category AC-15                           | 1.5 A   |

|                            |                        |
|----------------------------|------------------------|
| Utilisation category DC-13 | 24 VDC                 |
| Utilisation category DC-13 | 1.5 A                  |
| Switching element          | NO contact, NC contact |
| 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:

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

(1)

- 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
- Z02R** Snap action 2 NC contacts with latching
- Z12R** Snap action 1 NO contact / 2 NC contact 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

(2)

- L200** Connecting cable bottom, cable length 2 m
- LR200** Connecting cable right, cable length 2 m
- ST** Connector plug M12 - plastic - bottom
- STR** Connector plug M12, right

(3)

- S200** plunger S200 Ø 6 mm
- R200** Roller plunger R200
- K200** Offset roller lever - plastic roller- width 5.3 mm - Ø 12 mm
- K210** Offset roller lever - plastic roller- width 5mm - Ø 14mm
- K230** Angle roller lever - plastic roller Ø 14 mm
- K240** Angle roller lever with plastic roller Ø 22 mm - right-bent
- K250** Angle roller lever with plastic roller Ø 22 mm - left-bent

- H200** Roller lever - plastic roller Ø 16 m - lever length 24 mm
- N200** Roller lever 2 mm Toothing (24...26mm) - Plastic roller Ø 20 mm - Width 9.8 mm
- J200** Rod lever - plastic - 200mm -Ø 6mm

- (4)
- 0** Material Castor/Lever: Plastic
  - 1** Material Castor/Lever: Stainless steel
  - 2** Material Castor/Lever: Brass
  - 3** Material Castor/Lever: Aluminium
  - 4** Material Castor/Lever: Steel

Pictures

Photo/Product/Catalogue

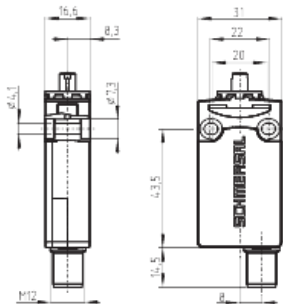


ID: kps1sf04

| 514,8 kB | .jpg | 352.425 x 477.661 mm - 999 x 1354 Pixel - 72 dpi

| 32,5 kB | .png | 74.083 x 100.189 mm - 210 x 284 Pixel - 72 dpi

Dimension/Product/Basic

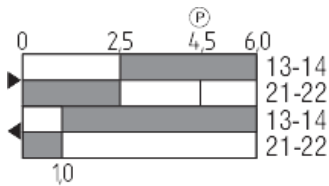


ID: kps11g02

| 4,8 kB | .png | 74.083 x 70.203 mm - 210 x 199 Pixel - 72 dpi

| 148,1 kB | .jpg | 352.778 x 333.728 mm - 1000 x 946 Pixel - 72 dpi

Diagramm/Product/Travel



ID: kps11s01

| 2,2 kB | .png | 74.083 x 41.628 mm - 210 x 118 Pixel - 72 dpi

| 69,9 kB | .jpg | 352.778 x 198.261 mm - 1000 x 562 Pixel - 72 dpi

Graphic/Product/Contact

ID: kps16k02

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

| 1,3 MB | .cdr |

| 56,4 kB | .jpg | 352.778 x 64.206 mm - 1000 x 182

Pixel - 72 dpi

K.A. Schmersal GmbH & Co. KG, Möddinghofe 3, D-42279 Wuppertal

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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