

PS116-Z11-ST-R200

- **Symmetric enclosure**
- **Thermoplastic enclosure**
- **plastic roller Ø 9,5 mm**
- **connector plug M12, bottom**
- **Protection class IP66, IP67**
- **Snap action 1 Normally open contact (NO) / 1 Opener (NC)**

Data

Ordering data	
	PS116-Z11-ST-R200
	103006653
EAN (European Article Number)	4030661442846
eCl@ss number, Version 9.0	27-27-26-01
Approval - Standards	
	cULus CCC EAC
General data	
Product name	PS116 roller plunger R200
	IEC 60947-5-1
Terminal (mechanical)	bottom
Housing construction form	Norm construction design
Actuator type to DIN EN 50047	C
Enclosure material	Plastic, glass-fibre reinforced thermoplastic, zinc die-cast, chromated
Material of the contacts, electrical	Silver
Gross weight	140 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 plunger R200
Mechanical life, minimum	10,000,000 Operations
Actuating force, minimum	10 N
Positive break force, minimum	40 N
Actuating speed, minimum	20 mm/min
Actuating speed, maximum	1 m/s
Mechanical data - Connection technique	
Terminal Connector	Connector M12, 4-pole
Mechanical data - Dimensions	
Height of sensor	74.1 mm
Length of sensor	16.6 mm
Width of sensor	31 mm
Diameter of Castor	9.5 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

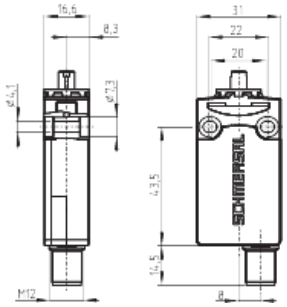
Photo/Product/Catalogue



ID: kps1rf04

| 542,2 kB | .jpg | 352.425 x 477.661 mm - 999 x 1354 Pixel - 72 dpi
| 35,3 kB | .png | 74.083 x 100.189 mm - 210 x 284 Pixel - 72 dpi

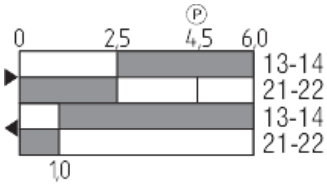
Dimension/Product/Basic



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

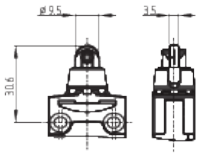
Graphic/Product/Contact



ID: kps16k02

| 1,3 MB | .cdr |
| 56,4 kB | .jpg | 352.778 x 64.206 mm - 1000 x 182 Pixel - 72 dpi

Dimension/Product/Actuator



ID: kps11b02

| 6,6 kB | .png | 74.083 x 49.389 mm - 210 x 140 Pixel - 72 dpi
| 143,9 kB | .jpg | 352.778 x 272.344 mm - 1000 x 772 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.
Generated on 182021-01-31T02:15:18+01:000201Europe/BerlinSun, 31 Jan 2021 02:15:18 +010018amSunday.31am31Europe/BerlinCET1501Europe/BerlinJanuary2021Sun, 31 Jan 2021 02:15:18 +010001am31