



PS116-Z12-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) / 2 Opener (NC)

Data

Ordering data

	PS116-Z12-ST-R200
	103006663
EAN (European Article Number)	4030661442945
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	73 g

General data - Features

Safety functions	Yes
Number of auxiliary contacts	1

Number of safety contacts	2
---------------------------	---

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, 6-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	0.8 kV
---------------------------------	--------

Electrical data

Thermal test current	2 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

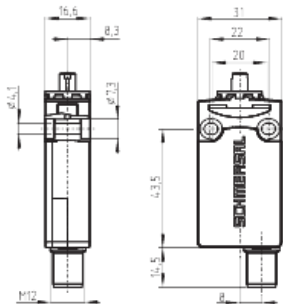


ID: kps1rf04

| 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

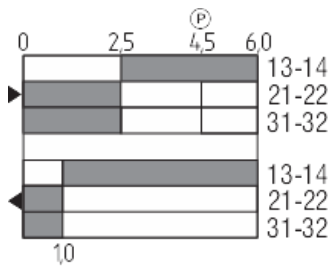


ID: kps11g02

| 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: kps11s03

| 2,7 kB | .png | 74.083 x 59.972 mm - 210 x 170 Pixel - 72 dpi

| 105,2 kB | .jpg | 352.778 x 284.692 mm - 1000 x 807 Pixel - 72 dpi

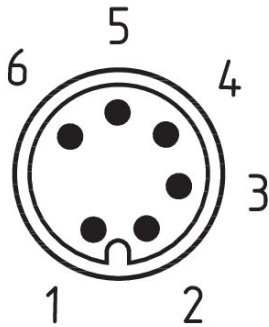
Graphic/Product/Contact

(5) BN 13 — 14 PK (6)
 (1) GN 21 — 22 GY (2)
 (3) YE 31 — 32 WH (4)

ID: kps16k03

| 85,8 kB | .jpg | 352.778 x 97.367 mm - 1000 x 276
 Pixel - 72 dpi

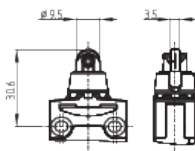
Graphic/Product/Contact



ID: km12-k6e

| 1,3 MB | .cdr |
 | 130,2 kB | .jpg | 352.778 x 386.292 mm - 1000 x
 1095 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 572021-01-31T02:15:57+01:000201Europe/BerlinSun, 31 Jan 2021 02:15:57

+010057amSunday.31am31Europe/BerlinCET1501Europe/BerlinJanuary2021Sun, 31 Jan 2021 02:15:57

+010001am31