



PS116-Z11-ST-K200

- Snap action 1 Normally open contact (NO) / 1 Opener (NC)
- connector plug M12, bottom
- Thermoplastic enclosure
- Symmetric enclosure
- Protection class IP66, IP67
- Actuator heads can be repositioned by 8 x 45°

Data

Ordering data

Product type description	PS116-Z11-ST-K200
Article number (order number)	103006655
EAN (European Article Number)	4030661442860
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	e
Enclosure material	Plastic, glass-fibre reinforced thermoplastic, zinc die-cast, chromated
Material of the contacts, electrical	Silver
Gross weight	150 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 _{10D} Normally-closed contact (NC)	20,000,000 Operations
---	-----------------------

Mechanical data

Actuating element	Offset roller lever K200
Mechanical life, minimum	10,000,000 Operations
Actuating force, minimum	7.5 N
Positive break force, minimum	40 N
Actuating speed, minimum	10 mm/min
Actuating speed, maximum	1 m/s

Actuating torque, minimum	0.2 Nm
Positive break torque	0.6 Nm

Mechanical data - Connection technique

Termination	Connector M12, 4-pole
-------------	-----------------------

Mechanical data - Dimensions

Length of sensor	16.6 mm
Width of sensor	31 mm
Height of sensor	83.6 mm
Diameter of Castor	12 mm

Ambient conditions

Degree of protection	IP67 IP66
Ambient temperature, minimum	-30 °C
Ambient temperature, maximum	+80 °C

Ambient conditions - Insulation values

Rated insulation voltage U_i	300 V
Rated impulse withstand voltage U_{imp}	2.5 kV

Electrical data

Thermal test current	2.5 A
Required rated short-circuit current	400 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 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)

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
LR300	Connecting cable right, cable length 3 m
LR500	Connecting cable right, cable length 5 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

Product picture (catalogue individual photo)

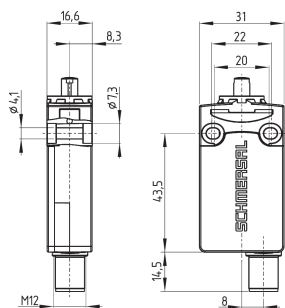


ID: kps1kf04

| 595.7 kB | .jpg | 352.778 x 527.403 mm - 1000 x 1495 px - 72 dpi

| 41.0 kB | .png | 74.083 x 110.772 mm - 210 x 314 px - 72 dpi

Dimensional drawing basic component



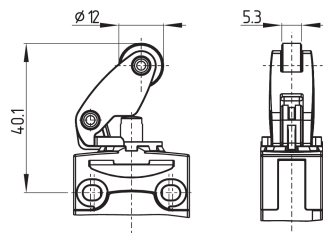
ID: kps11g02

| 252.3 kB | .ai | 200 x 200 mm - 566 x 566 px - 72 dpi

| 4.8 kB | .png | 74.083 x 70.203 mm - 210 x 199 px - 72 dpi

| 148.1 kB | .jpg | 352.778 x 333.728 mm - 1000 x 946 px - 72 dpi

Dimensional drawing actuator



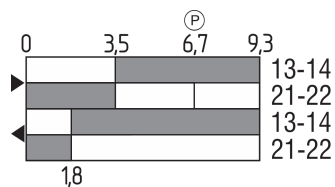
ID: kps11b04

| 209.6 kB | .ai | 100.226 x 69.855 mm - 284 x 198 px - 72 dpi

| 5.1 kB | .png | 74.083 x 51.506 mm - 210 x 146 px - 72 dpi

| 148.7 kB | .jpg | 352.778 x 258.586 mm - 1000 x 733 px - 72 dpi

Switch travel diagram



ID: kps11s10

| 2.3 kB | .png | 74.083 x 41.628 mm - 210 x 118 px - 72 dpi

| 69.5 kB | .jpg | 352.778 x 197.556 mm - 1000 x 560 px - 72 dpi

Diagram

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

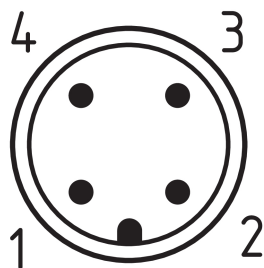
ID: kps16k02

| 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

Contact arrangement



ID: km12-k4c

| 4.2 kB | .png | 74.083 x 74.083 mm - 210 x 210 px - 72 dpi

| 113.3 kB | .jpg | 352.778 x 352.778 mm - 1000 x 1000 px - 72 dpi

Schmersal, Inc., 15 Skyline Drive, Hawthorne, NY 10532

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: 12/16/2022, 12:21 AM