



PS316-Z12-S300

- thermoplastic enclosure with foldable latching cover
- Quick connection technology as connection terminals rotated by 45°
- Simple and quick to adjust the control elements by 45°.
- cable entry 1 x M20 x 1,5
- Design to EN 50041
- LED version available

Data

Ordering data

Product type description	PS316-Z12-S300
Article number (order number)	103015131
EAN (European Article Number)	4030661502434
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
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General data

Standards	EN IEC 60947-5-1
Housing construction form	Norm construction design
Actuator type to EN 50047	B
Enclosure material	Plastic, glass-fibre-reinforced
Material of the contacts, electrical	Silver
Gross weight	115 g

General data - Features

Safety functions	Yes
Number of auxiliary contacts	1
Number of safety contacts	2

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
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Mechanical data

Actuating element	Plunger S300
Mechanical life, minimum	10,000,000 Operations
Positive break force, minimum	50 N
Actuating speed, minimum	10 mm/min
Actuating speed, maximum	0.5 m/s

Mechanical data - Connection technique

Termination	Screw terminals M20 x 1.5
Cable section, minimum	0.34 mm ²
Cable section, maximum	1.5 mm ²

Mechanical data - Dimensions

Length of sensor	37 mm
Width of sensor	41 mm
Height of sensor	104 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}	4 kV

Electrical data

Thermal test current	5 A
Required rated short-circuit current	400 A
Utilisation category AC-15	240 VAC
Utilisation category AC-15	3 A
Utilisation category DC-13	24 VDC
Utilisation category DC-13	3 A
Switching element	1 NO contact, 2 NC contacts
Switching principle	Snap action

Switching frequency

5,000 /h

Ordering code

Product type description:

PS(2)-(3)-(4)-(5)-(6)-(7)-(8)-(9)-(10)-(11)-(12)

(1)

without

non-EX version

EX

Types of protection Ex d and t, to Zone 1/21

EXI

Types of protection Ex i and t, up to Zone 1/21

(2)

315

Metal enclosure

316

Thermoplastic enclosure

(3)

without

L-hole (standard)

L

elongated hole

(4)

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

Z01R

Snap action 1 NC contact with latching

Z02R

Snap action 2 NC contacts 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
T11K	Slow action 1 NO contact + 1 NC contact - short-stroke
T10	Slow action 1 NO contact
T02K	Slow action 2 NO contacts short-stroke
T20H	Slow action 2 NO contacts staggered

(5)

without	Contacts silver plated (Standard)
A1	Gold contacts 0,3 µm
A2	Gold contacts 1,0 µm
A3	Gold contacts 3,0 µm

(6)

without	without indication light
G	integrated status display

(7)

without	Cable entry M20
ST	Connector plug M12 - plastic - bottom
STM	Connector plug M12, metal

(8)

S200	plunger S200 Ø 6 mm
S300	Plunger - plastic - tappet width Ø 9 mm
S310	Plunger - plastic - tappet width Ø 9 mm - with bellows
R300	Roller plunger - plastic roller - width 4.6 mm
R302	Roller plunger - brass roller - width 4.6 mm
R310	Roller plunger - plastic roller - width 4.6 mm
K360	Angle roller lever with plastic roller Ø 20 mm - left-bent

K370	Angle roller lever with plastic roller Ø 20 mm - right-bent
H300	Roller lever - plastic roller Ø 25 mm
H301	Roller lever - stainless steel roller Ø 25 mm
H302	Roller lever - brass roller Ø 25 mm
H310	Roller lever - plastic roller Ø 20 mm
H311	Roller lever - stainless steel roller Ø 20 mm
H312	Roller lever - brass roller Ø 20mm
H326	Roller lever - rubber roller Ø 20mm
H330	Roller lever
N300	Roller lever - plastic roller Ø 25 mm
N301	Roller lever - stainless steel roller Ø 20 mm
N306	Roller lever - rubber roller Ø 50mm
N360	Roller lever - plastic roller Ø 20 mm - width 9.8 mm - long
N370	Roller lever - plastic roller Ø 20 mm - width 9.8 mm - very long
J300	Rod lever - plastic - 200mm -Ø 6mm
F230	Spring rod - stainless steel - 150.4 mm
F231	Spring rod - stainless steel - 70.2 mm
A200	Special actuating bolt - plastic - valve control

(9)

without	no intent rotation (Standard)
U1	intent rotation 45°
U2	intent rotation 90°
U3	intent rotation 135°
U4	intent rotation 180°
U5	intent rotation 225°
U6	intent rotation 275°
U7	intent rotation 315°

(10)

without	no lever rotation (Standard)
X1	lever rotation 15°
X2	lever rotation 30°
X3	lever rotation 45°
X4	lever rotation 60°
X5	lever rotation 75°
X6	lever rotation 90°
X7	lever rotation 105°
X8	lever rotation 120°
X9	lever rotation 135°
X10	lever rotation 150°
X11	lever rotation 165°
X12	lever rotation 180°
X13	lever rotation 195°
X14	lever rotation 210°
X15	lever rotation 225°
X16	lever rotation 240°
X17	lever rotation 255°
X18	lever rotation 270°
X19	lever rotation 285°
X20	lever rotation 300°
X21	lever rotation 315°
X22	lever rotation 330°
X23	lever rotation 345°

(11)

without	Roller outside (Standard)
I	Roller inside

(12)

without	-30...+80°C (Standard)
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T	-40...+80°C
(13)	
(14)	
without	Zone 2 and 22
3GD	Zone 2 and 22
2D	Zone 21
3D	Zone 22

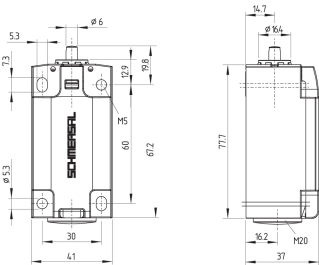
Pictures

Product picture (catalogue individual photo)



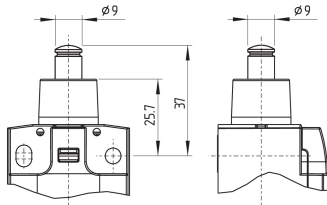
ID: kps3sf02
 | 872.5 kB | .jpg | 352.778 x 603.956 mm - 1000 x 1712 px - 72 dpi
 | 52.1 kB | .png | 74.083 x 126.647 mm - 210 x 359 px - 72 dpi

Dimensional drawing basic component



ID: kps3xg05
 | 123.9 kB | .jpg | 352.778 x 289.278 mm - 1000 x 820 px - 72 dpi

Dimensional drawing actuator

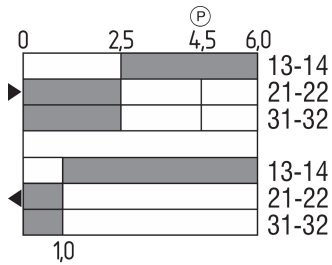


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| 101.2 kB | .jpg | 352.778 x 225.425 mm - 1000 x 639 px - 72 dpi

| 5.3 kB | .png | 74.083 x 47.272 mm - 210 x 134 px - 72 dpi

Switch travel diagram

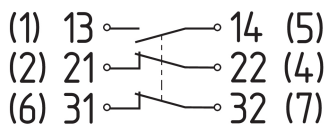


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| 2.7 kB | .png | 74.083 x 59.972 mm - 210 x 170 px - 72 dpi

| 105.2 kB | .jpg | 352.778 x 284.692 mm - 1000 x 807 px - 72 dpi

Diagram



ID: kps2xk07

| 85.7 kB | .jpg | 352.778 x 154.517 mm - 1000 x 438 px - 72 dpi

| 3.6 kB | .png | 74.083 x 32.456 mm - 210 x 92 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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