



PS316-T02-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-T02-S300
Article number (order number)	103015147
EAN (European Article Number)	4030661502427
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
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	112 g

General data - Features

Safety functions	Yes
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	60 mm/min
Actuating speed, maximum	0.5 m/s
Note (Actuating speed)	Actuating speed with actuating angle 30° to switch axis

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	10 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	2 NC contact
Switching principle	Slow 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

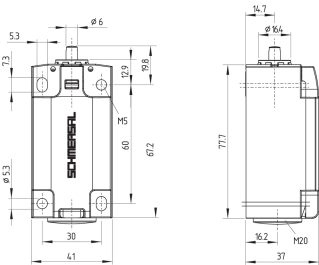
Pictures

Product picture (catalogue individual photo)



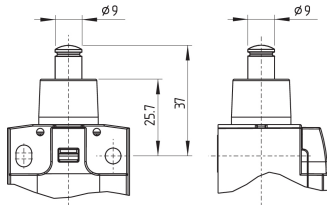
ID: kps3sf02
| 872.5 kB | .jpg | 352.778 x 603.956 mm - 1000 x 1712 px - 72 dpi
| 52.1 kB | .png | 74.083 x 126.647 mm - 210 x 359 px - 72 dpi

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

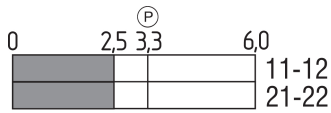


ID: kps3xb08

| 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

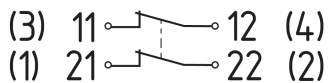


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| 1.6 kB | .png | 74.083 x 24.694 mm - 210 x 70 px - 72 dpi

| 45.6 kB | .jpg | 352.778 x 117.475 mm - 1000 x 333 px - 72 dpi

Diagram



ID: kps2xk03

| 55.6 kB | .jpg | 352.778 x 106.892 mm - 1000 x 303 px - 72 dpi

| 2.7 kB | .png | 74.083 x 22.578 mm - 210 x 64 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.

Generated on: 12/15/2022, 4:53 AM