

PS316-Z12-N300



- Design to EN 50041
- cable entry 1 x M20 x 1,5
- length adjustable in 2 mm steps
- Lever angle adjustable in 15° steps
- thermoplastic enclosure with foldable latching cover
- Simple and quick to adjust the control elements by 45°.
- Quick connection technology as connection terminals rotated by 45°

Data

Ordering data

Product type description	PS316-Z12-N300
Article number (order number)	103015142
EAN (European Article Number)	4030661502922

Certifications

Certificates	cULus CCC EAC
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General data

Product name	PS316 with roller lever N300
Standards	IEC 60947-5-1
Housing construction form	Norm construction design
Enclosure material	Plastic, glass-fibre-reinforced
Material of the contacts, electrical	Silver
Gross weight	165.9 g

General data - Features

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

Safety appraisal

Standards	ISO 13849-1
Mission Time	20 Year(s)

Safety appraisal - Safety outputs

B10d Normally-closed contact (NC)	20,000,000 Operations
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Mechanical data

Actuating element	Roller lever N300
Mechanical life, minimum	10,000,000 Operations
Positive break force, minimum	50 N
Actuating speed, minimum	10 mm/min
Actuating speed, maximum	1 m/s

Mechanical data - Connection technique

Terminal Connector	Screw connection
Cable section, minimum	0.34 mm ²
Cable section, maximum	1.5 mm ²

Mechanical data - Dimensions

Height of sensor	168 mm
Length of sensor	37 mm
Width of sensor	41 mm

Ambient conditions

Protection class	IP66 IP67
Ambient temperature, minimum	-30 °C
Ambient temperature, maximum	+80 °C

Ambient conditions - Insulation value

Rated impulse withstand voltage	4 kV
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Electrical data

Thermal test current	5 A
Required rated short-circuit current to EN 60947-5-1	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 switch element
Switching frequency	5,000 /h

Ordering code

Product type description:

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

(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

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

(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

R300 Roller plunger - plastic roller - width 4.6 mm

R302 Roller plunger - brass 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

N300 Roller lever - plastic roller Ø 25 mm

N301 Roller lever - stainless steel roller Ø 20 mm

N306 Roller lever - rubber roller Ø 20mm

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 - plastic

F231 Spring rod - stainless steel

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)

T -40...+80°C

Documents

Operating instructions and Declaration of conformity

(444,8 kB, 19.11.2019)

Operating instructions (supplementary sheet/quick guide)

(408,0 kB, 10.05.2019, Revision A)

UL Certificate

(211,5 kB, 01.08.2019)

CCC certification

(6,9 MB, 21.08.2019)

EAC certification

SISTEMA-VDMA library

(134,9 kB, 19.06.2019)

Pictures

Product picture (catalogue individual photo)



ID: kps3nf02

| 109,9 kB | .jpg | 27.093 x 60.283 mm - 320 x 712

Pixel - 300 dpi

| 1,0 MB | .jpg | 352.778 x 784.931 mm - 1000 x 2225

Pixel - 72 dpi

| 66,2 kB | .png | 74.083 x 164.747 mm - 210 x 467

Pixel - 72 dpi

Product picture (catalogue individual photo)



ID: kps3nf03

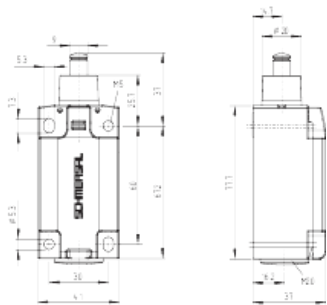
| 46,0 kB | .png | 74.083 x 136.525 mm - 210 x 387

Pixel - 72 dpi

| 61,0 kB | .jpg | 27.093 x 49.953 mm - 320 x 590 Pixel
- 300 dpi

| 579,1 kB | .jpg | 352.778 x 650.875 mm - 1000 x
1845 Pixel - 72 dpi

Dimensional drawing basic component



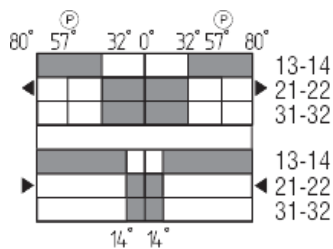
ID: kps3xg01

| 5,0 kB | .png | 74.083 x 70.203 mm - 210 x 199 Pixel - 72 dpi

| 140,3 kB | .jpg | 352.778 x 333.728 mm - 1000 x 946 Pixel - 72 dpi

| 35,0 kB | .jpg | 112.889 x 106.892 mm - 320 x 303 Pixel - 72 dpi

Switch travel diagram

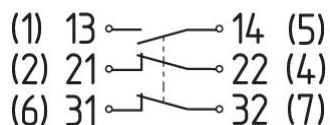


ID: kps31s24

| 3,1 kB | .png | 74.083 x 55.739 mm - 210 x 158 Pixel - 72 dpi

| 31,4 kB | .jpg | 112.889 x 84.667 mm - 320 x 240 Pixel - 72 dpi

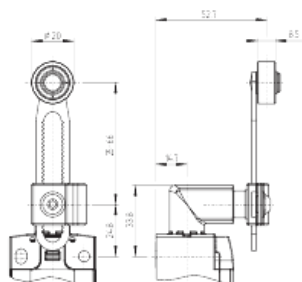
Diagram



ID: kps2xk07

| 26,2 kB | .jpg | 112.889 x 49.389 mm - 320 x 140 Pixel - 72 dpi

Dimensional drawing actuator



ID: kps3xb06

| 169,9 kB | .jpg | 352.778 x 338.667 mm - 1000 x 960 Pixel - 72 dpi

| 5,7 kB | .png | 74.083 x 70.203 mm - 210 x 199 Pixel - 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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