



PS316-T02-R300

- Design to EN 50041
- cable entry 1 x M20 x 1,5
- 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

PS316-T02-R300

103015153

EAN (European Article Number)

4030661502571

Approval - Standards

cULus

CCC

EAC

General data

Product name	PS316 with roller plunger S300
	IEC 60947-5-1
Housing construction form	Norm construction design
Actuator type to DIN EN 50047	C
Enclosure material	Plastic, glass-fibre-reinforced
Material of the contacts, electrical	Silver
Gross weight	111.3 g

General data - Features

Safety functions	Yes
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 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

Mechanical data - Connection technique

Terminal Connector

Screw connection

0.34 mm²

1.5 mm²

Mechanical data - Dimensions

Height of sensor

117 mm

Length of sensor

37 mm

Width of sensor

41 mm

Ambient conditions

IP66

IP67

Ambient temperature, minimum

-30 °C

Ambient temperature, maximum

+80 °C

Ambient conditions - Insulation value

Rated impulse withstand voltage

4 kV

Electrical data

Thermal test current

10 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	2 NC contact
Switching principle	Creep circuit element
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

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)

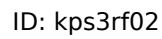
without -30...+80°C (Standard)

- T** -40...+80°C

(13)

without	Zone 2 and 22
3GD	Zone 2 and 22
2D	Zone 21
3D	Zone 22

Photo/Product/Catalogue



| 55,0 kB | .png | 74.083 x 141.464 mm - 210 x 401
Pixel - 72 dpi

| 893,3 kB | .jpg | 352.778 x 674.158 mm - 1000 x
1911 Pixel - 72 dpi

ID: kps3rf04

| 993,6 kB | .jpg | 352.778 x 762 mm - 1000 x 2160
Pixel - 72 dpi

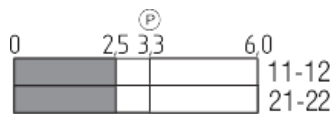
| 70,0 kB | .png | 74.083 x 159.808 mm - 210 x 453
Pixel - 72 dpi

ID: kps3xg05

| 123,9 kB | .jpg | 352.778 x 289.278 mm - 1000 x 820
Pixel - 72 dpi

Diagramm/Product/Travel

ID: kps11s05

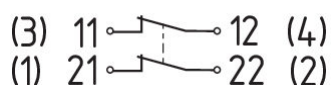


| 45,6 kB | .jpg | 352.778 x 117.475 mm - 1000 x 333

Pixel - 72 dpi

| 1,6 kB | .png | 74.083 x 24.694 mm - 210 x 70 Pixel - 72 dpi

Graphic/Product/Contact

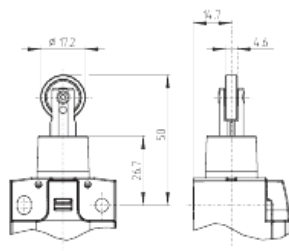


ID: kps2xk03

| 55,6 kB | .jpg | 352.778 x 106.892 mm - 1000 x 303

Pixel - 72 dpi

Dimension/Product/Actuator



ID: kps3xb02

| 4,8 kB | .png | 74.083 x 61.736 mm - 210 x 175 Pixel - 72 dpi

| 150,6 kB | .jpg | 352.778 x 313.619 mm - 1000 x 889 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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