



PS316-Z12-K370

- 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-Z12-K370

103015138

EAN (European Article Number)

4030661502762

Approval - Standards

cULus

CCC

EAC

General data

Product name	PS316 with offset roller lever K370 IEC 60947-5-1
Housing construction form	Norm construction design
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 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

Offset roller lever K370

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

0.34 mm²

1.5 mm²

Mechanical data - Dimensions

Height of sensor

119 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

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)

(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)

(14)

without Zone 2 and 22

3GD Zone 2 and 22

2D Zone 21

3D Zone 22

Pictures

Photo/Product/Catalogue



ID: kps3kf07

| 891,9 kB | .jpg | 352.778 x 639.939 mm - 1000 x 1814 Pixel - 72 dpi

| 55,7 kB | .png | 74.083 x 134.408 mm - 210 x 381 Pixel - 72 dpi

Photo/Product/Catalogue

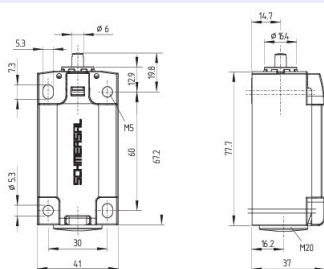


ID: kps3kf08

| 422,0 kB | .jpg | 352.778 x 439.914 mm - 1000 x 1247 Pixel - 72 dpi

| 31,7 kB | .png | 73.731 x 92.075 mm - 209 x 261 Pixel - 72 dpi

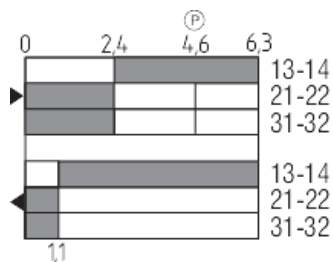
Dimension/Product/Basic



ID: kps3xg05

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

Diagramm/Product/Travel

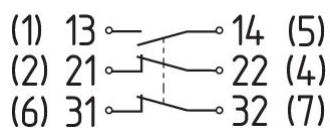


ID: kps31s23

| 2,6 kB | .png | 74.083 x 59.267 mm - 210 x 168 Pixel
- 72 dpi

| 104,1 kB | .jpg | 352.778 x 281.869 mm - 1000 x 799
Pixel - 72 dpi

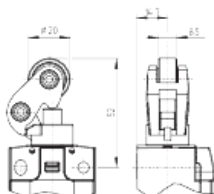
Graphic/Product/Contact



ID: kps2xk07

| 85,7 kB | .jpg | 352.778 x 154.517 mm - 1000 x 438
Pixel - 72 dpi

Dimension/Product/Actuator



ID: kps3xb05

| 4,5 kB | .png | 74.083 x 56.797 mm - 210 x 161 Pixel
- 72 dpi

| 183,9 kB | .jpg | 352.778 x 337.608 mm - 1000 x 957
Pixel - 72 dpi

K.A. Schmersal GmbH & Co. KG, Möddinghofe 3, D-42279 Wuppertal

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 042021-01-31T03:07:04+01:000301Europe/BerlinSun, 31 Jan 2021 03:07:04

+010004amSunday.31am31Europe/BerlinCET0701Europe/BerlinJanuary2021Sun, 31 Jan 2021 03:07:04

+010001am31