

## PS215-Z12-K250



- Metal enclosure
- Design to EN 50047
- cable entry 1 x M20 x 1,5
- Simple and quick to adjust the control elements by 45°.
- Quick connection technology as connection terminals rotated by 45°
- Actuation from bottom parallel to the switch, therefore only suitable for small housings.

### Data

#### Ordering data

Product type description	PS215-Z12-K250
Article number (order number)	103014969
EAN (European Article Number)	4030661501864

#### Certifications

Certificates	cULus CCC EAC
--------------	---------------------

#### General data

Product name	PS215 with angle roller lever K250
Standards	IEC 60947-5-1
Housing construction form	Norm construction design
Enclosure material	Metal, zinc die-cast
Enclosure coating material	painted
Material of the contacts, electrical	Silver
Gross weight	222.6 g

#### General data - Features

Safety functions	Yes
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

### Mechanical data

Actuating element Angle roller lever K250

Mechanical life, minimum 10,000,000 Operations

Positive break force, minimum 40 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<sup>2</sup>

Cable section, maximum 1.5 mm<sup>2</sup>

### Mechanical data - Dimensions

Height of sensor 107 mm

Length of sensor 32.5 mm

Width of sensor 31 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

### 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:

PS2(2)-(3)-(4)-(5)-(6)-(7)-(8)-(9)-(10)-(11)-  
(12)

(2)

- 5** Metal enclosure
- 216** Thermoplastic enclosure
- 226** Plastic housing with 2 cable entries

(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  
**M16** cable entry M16  
**ST** Connector plug M12 - plastic - bottom  
**STR** Connector plug M12, right  
**STL** Connector plug M 12, left

(8)

**S200** plunger S200 Ø 6 mm  
**S210** Plunger Ø 8,6 mm  
**S211** Plunger Ø 10,3 mm  
**S221** Plunger Ø 9,8 mm  
**R200** Roller plunger R200  
**R201** Roller plunger - stainless steel roller Ø 9,5mm  
**R210** Roller plunger - plastic roller Ø 12mm  
**K201** Roller plunger - stainless steel roller - width 5,3 mm - Ø 12mm  
**K200** Offset roller lever - plastic roller- width 5.3 mm - Ø 12 mm  
**K201** Roller plunger - stainless steel roller - width 5,3 mm - Ø 12mm  
**K210** Offset roller lever - plastic roller- width 5mm - Ø 14mm  
**K230** Angle roller lever - plastic roller Ø 14 mm  
**K240** Angle roller lever with plastic roller Ø 22 mm - right-bent  
**K250** Angle roller lever with plastic roller Ø 22 mm - left-bent  
**H200** Roller lever - plastic roller Ø 16 m - lever length 24 mm  
**H202** Roller lever - brass roller Ø 16mm - lever length 24mm (Standard)  
**H230** Roller lever - plastic roller Ø 16mm - lever length 28 mm  
**H232** Roller lever - brass roller Ø 16mm - lever length 28 mm  
**H236** Roller lever - rubber roller Ø 16mm - lever length 28 mm  
**N200** Roller lever 2 mm Toothing (24...26mm) - Plastic roller Ø 20 mm - Width 9.8 mm  
**N201** Roller lever adjustable in 2 mm steps (24...66mm) - stainless steel roller Ø 20mm - width 9,8 mm  
**N202** Roller lever - adjustable in 2 mm steps (24...66mm) - brass roller Ø 20mm - width 9,8 mm  
**N210** Roller lever - adjustable in 2 mm steps (24...66mm) - plastic roller Ø 20mm - width 5 mm - long-angled - locking washer  
**N280** Roller lever -adjustable in 2 mm steps (24...66mm) - plastic roller Ø 20mm - width 5 mm - long -locking washer  
**J200** Rod lever - plastic - 200mm -Ø 6mm  
**J201** Rod lever - stainless steel - 200mm -Ø 6mm (Standard)  
**J203** Rod lever - aluminium - 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

### UL Certificate

(211,5 kB, 01.08.2019)

### EAC certification

## Pictures

### Product picture (catalogue individual photo)



ID: kps2kf13

| 82,7 kB | .jpg | 27.093 x 47.413 mm - 320 x 560 Pixel  
- 300 dpi

| 800,7 kB | .jpg | 352.778 x 617.714 mm - 1000 x  
1751 Pixel - 72 dpi

| 50,6 kB | .png | 74.083 x 129.469 mm - 210 x 367  
Pixel - 72 dpi

### Product picture (catalogue individual photo)



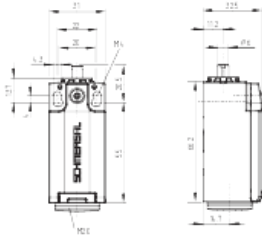
ID: kps1kf35

| 20,7 kB | .png | 74.083 x 64.206 mm - 210 x 182  
Pixel - 72 dpi

| 30,2 kB | .jpg | 27.093 x 23.453 mm - 320 x 277 Pixel  
- 300 dpi

| 206,5 kB | .jpg | 352.778 x 305.506 mm - 1000 x 866  
Pixel - 72 dpi

## Dimensional drawing basic component



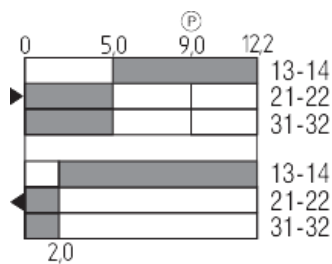
ID: kps2xg01

| 4,4 kB | .png | 74.083 x 68.086 mm - 210 x 193 Pixel  
- 72 dpi

| 111,3 kB | .jpg | 352.778 x 323.85 mm - 1000 x 918  
Pixel - 72 dpi

| 26,4 kB | .jpg | 112.889 x 103.717 mm - 320 x 294  
Pixel - 72 dpi

## Switch travel diagram

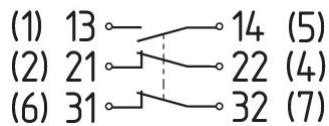


ID: kps11s48

| 2,7 kB | .png | 74.083 x 58.914 mm - 210 x 167 Pixel  
- 72 dpi

| 28,2 kB | .jpg | 112.889 x 89.958 mm - 320 x 255  
Pixel - 72 dpi

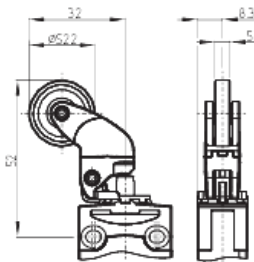
## Diagram



ID: kps2xk07

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

## Dimensional drawing actuator



ID: kps11b08

| 214,1 kB | .jpg | 352.778 x 365.831 mm - 1000 x  
1037 Pixel - 72 dpi

| 5,8 kB | .png | 74.083 x 72.319 mm - 210 x 205 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 23.06.2020 14:59:09