SCHMERSAL
THE DNA OF SAFETY

PS216-Z02-K230



- **Design to EN 50047**
- **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°**
- **Actuation from bottom parallel to the switch, therefore only suitable for small housings.**

Data

Ordering data	
	PS216-Z02-K230
	103015011
EAN (European Article Number)	4030661501628
Approval - Standards	
	cULus CCC EAC
General data	
Product name	PS216 with angle roller lever K230
	IEC 60947-5-1
Housing construction form	Norm construction design
Enclosure material	Plastic, glass-fibre-reinforced
Material of the contacts, electrical	Silver
Gross weight	190 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	Angle roller lever K230
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
	0.34 mm²
	1.5 mm²
Mechanical data - Dimensions	
Height of sensor	93.5 mm
Length of sensor	32.5 mm
Width of sensor	31 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	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)

(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)

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

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

M16 cable entry M16

ST Connector plug M12 - plastic - bottom

STR Connector plug M12, right

STL Connector plug M 12, left

STM Connector plug M12, metal

(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

K211 Offset roller lever - stainless steel roller - width 5mm - Ø 14mm

K220 Offset roller lever - plastic roller- width 7.6 mm - Ø 14 mm

K230 Angle roller lever - plastic roller Ø 14 mm

K231 Roller plunger - stainless steel roller Ø 14mm (Standard)

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

N206 Roller lever - adjustable in 2 mm steps (24...66mm) - rubber roller Ø 50mm - width 16 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 - 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

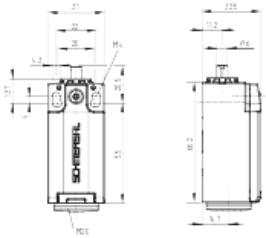
3GD Zone 2 and 22

2D Zone 21

3D Zone 22

Pictures

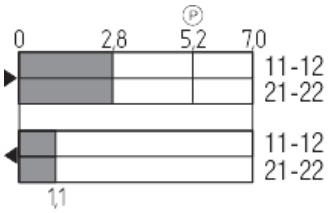
Photo/Product/Catalogue	
	ID: kps2kf08 | 49,6 kB | .png | 74.083 x 139.347 mm - 210 x 395 Pixel - 72 dpi | 733,0 kB | .jpg | 352.778 x 664.633 mm - 1000 x 1884 Pixel - 72 dpi
Photo/Product/Catalogue	
	ID: kps1kf21 | 13,1 kB | .png | 74.083 x 50.447 mm - 210 x 143 Pixel - 72 dpi | 129,8 kB | .jpg | 352.778 x 239.536 mm - 1000 x 679 Pixel - 72 dpi
Dimension/Product/Basic	



ID: kps2xg01

| 111,3 kB | .jpg | 352.778 x 323.85 mm - 1000 x 918 Pixel - 72 dpi
| 4,4 kB | .png | 74.083 x 68.086 mm - 210 x 193 Pixel - 72 dpi

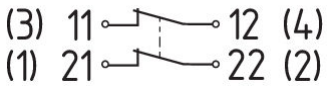
Diagramm/Product/Travel



ID: kps11s29

| 2,2 kB | .png | 74.083 x 47.625 mm - 210 x 135 Pixel - 72 dpi
| 73,1 kB | .jpg | 352.778 x 226.483 mm - 1000 x 642 Pixel - 72 dpi

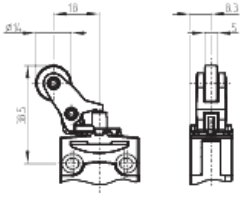
Graphic/Product/Contact



ID: kps2xk08

| 56,1 kB | .jpg | 352.778 x 110.067 mm - 1000 x 312 Pixel - 72 dpi

Dimension/Product/Actuator



ID: kps11b06

| 150,0 kB | .jpg | 352.778 x 290.689 mm - 1000 x 824 Pixel - 72 dpi
| 4,1 kB | .png | 74.083 x 61.736 mm - 210 x 175 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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