

Position detection and monitoring
with system

POSITION SWITCH FAMILY PS



INTRODUCTION



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Managing Directors of the Schmersal Group

Schmersal position switch – the continuation of a success story!

Position switches at Schmersal have a long tradition and belong to the company's core areas of expertise. This tradition is now being continued with the new position switch family PS.

For automation, safety applications and elevator technology – the new series is suitable for a broad range of applications across all individual disciplines of machine and plant construction.

The complete portfolio of the PS-series, whose elements can be combined in numerous ways and used like a building block system, stands for secure and reliable position detection.

The modular design with consistent components enables efficient and flexible solutions.

This brochure provides an overview of the diverse areas of application of the new position switch family PS.

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POSITION SWITCHES

DESCRIPTION

SYSTEM UNIVERSALLY DEPLOYABLE SERIES

Recording and monitoring, from extraordinarily compact to very robust.

With these properties, the new position switches are aimed at a wide variety of applications across all disciplines of mechanical engineering and plant manufacturing as well as elevator technology.

The advantages of the new position switch series at a glance:

- Reliable position detection
- Highly versatile
- Robust and reliable
- Can be combined in numerous ways thanks to modular design

AREA OF APPLICATION

Type 1 position switches according to EN ISO 14119 are for determining the position and monitoring of movable components on machines and for protective equipment that can be moved laterally or is rotatable. This allows them to be used in all industrial environments.

The protection classes IP66 an IP67 form the requirements for the use of position switches in adverse ambient conditions.

DESIGN AND WAY OF FUNCTIONING

All position switches are equipped with positive break NC contacts in accordance with EN 60947-5-1 and are available with snap action and also slow action. In conjunction with an appropriate safety controller, a single position switch can be used up to PL d. Using two position switches PL e can be achieved according to EN ISO 13849-1.

FLEXIBLE SOLUTIONS

Switching elements with up to three contacts

Switching elements with three contacts ensures a redundant switch-off with additional signalling contact. All switching elements of the diverse contact combinations are equipped with galvanically separated contacts with positive break NC contacts.

Latching function

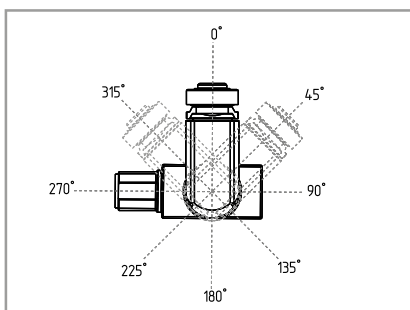
To save the switching state, versions are available with snap action and an optional latching function where the mounting element must be manually reset to the starting condition.

Modular diversity

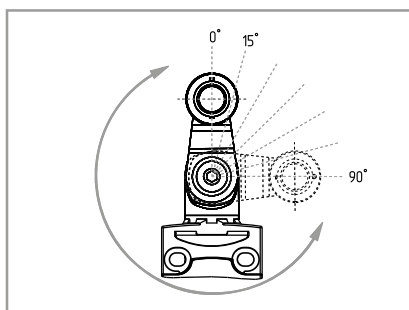
The modular design with consistent components across all series reduces the number of different versions, lowers the effort required for storage and increases availability.



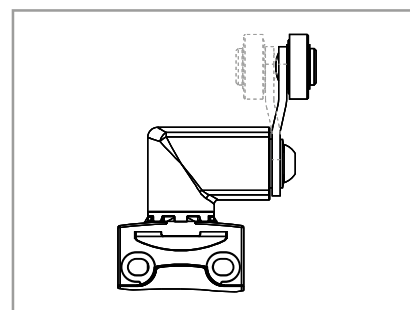
ACTUATOR ELEMENTS AND LEVER



Adjustable actuator elements
All actuating elements can be rotated in 45° increments and can be quickly replaced and implemented due to the simple mounting design.



Adjustable lever
Roller lever can be set in 15° steps.



Rotatable lever
For versions with a rotatable roller lever, the lever can be fitted so that the roller is on the inside.

POSITION SWITCHES

ORDER INFORMATION COMPLETE DEVICE OR MODULAR CONSTRUCTION KIT

All position switches of the PS116, PS2xx and PS3xx series can be obtained either as a complete device or a modular construction kit. The complete device with actuating element S200 serves as a basic switch in the construction kit system. The following ordering example can therefore be transferred to all of the series listed.

ORDER EXAMPLE

Position switch PS116, snap action 1 NO contact / 1 NC contact, roller lever, M12 connector on right



Complete device



PS116-Z11-STR-H200

Modular selection (construction kit) to be ordered separately



Basic switch:
PS116-Z11-STR-S200



Actuator head:



For assembly of the modular selection, the enclosure of the thrust pin included in the basic switch must be removed and replaced by the roller lever PS-H200.



PS-J200



PS-N200



PS-K250

ORDERING CODE

PSXXX-Z11A2-L200-S200

Switching elements (others on request)

T02	Slow action 2 NC contacts
T02H	Slow action 2 NC contacts with staggered contacts
T03	Slow action 3 NC contacts
T10	Slow action 1 NO contact
T11	Slow action 1 NO contact / 1 NC contact
T11UE	Slow action 1 NO contact / 1 NC contact with overlapping contacts
T12	Slow action 1 NO contact / 2 NC contacts
T20	Slow action 2 NO contacts
T21	Slow action 2 NO contacts / 1 NC contact
Z02	Snap action 2 NC contacts
Z11	Snap action 1 NO contact / 1 NC contact
Z11R	Snap action 1 NO contact / 1 NC contact with latching (not for PS3xx)
Z12	Snap action 1 NO contact / 2 NC contacts

Contact design

	Silver contacts (Standard)
A1	Gold-plated contacts 0.3 µm
A2	Gold-plated contacts 1.0 µm
A3	Gold-plated contacts 3.0 µm

Roller/lever variants

00 ... 99 | Material and dimension variants

Actuator elements (more on request)

PS116 and PS2xx series

S2	Plunger
R2	Roller plunger
K2	Roller/angle roller lever
H2	Roller lever
N2	Length-adjustable roller lever
J2	Rod lever
F2	Spring rod
A2	Tappet for press safety using

PS3xx series

S2	Plunger, tappet width Ø 6 mm
S3	Plunger, tappet width Ø 9 mm
R3	Roller plunger
K3	Angle roller lever
H3	Roller lever
N3	Length-adjustable roller lever
J3	Rod lever
F2	Spring rod

Termination

	Cable entry M20, screw connection
M16	Cable entry M16, screw connection
ST	Connector plug M12, bottom
STR	Connector plug M12, right
L200	Pre-wired cable bottom, 2 m (PS116 only)
LR200	Pre-wired cable right, 2 m (PS116 only)

For technical reasons, not all possible variations and/or combinations can be delivered.

The existing key type is used to translate the product type designation.

PS2XX / PS3XX

STANDARDISED CONSTRUCTION FORMS, EXTRAORDINARY FEATURES

FOLDING LATCHING COVER



All plastic versions are fitted with a folding and captive latching cover. The cover can be opened with the aid of a flat-head screwdriver and needs no tools to be closed.

REDUCED ASSEMBLY TIMES

The 45° rotated connection terminals of all switch elements reduce the assembly time considerably.



ACTUATING ELEMENT REPLACE AND TURN

All actuating elements can be rotated in 45° increments and can be quickly replaced and implemented due to the simple mounting design. This means that adaptation to the prescribed actuating direction is possible at any time.

PS116



1. Release locking plate
(flat-head screwdriver or
accessory tool ACC-PS116-1)

2. Remove or turn existing
actuating element

3. Position of new
actuating element

4. Secure locking plate

The symmetrical layout of the enclosure means that it can be used for left-hand and right-hand versions of the same switch. This applies to both the cable and the connector design.

PS2XX / PS3XX



1. Release locking plate
(flat-head screwdriver)

2. Remove or turn existing
actuating element

3. Position of new
actuating element

4. Secure locking plate

POSITION SWITCHES

OVERVIEW OF THE SERIES



■ PS116



■ PS215

Key Features

- Symmetrical casing
- Compact design
- Fitted (cable / M12 connector)
- Complete device or modular construction kit
- Design to EN 50047

- Simplified connection (connection terminals rotated by 45°)
- Robust design
- Complete device or modular construction kit
- Design to EN 50047

Technical features

Electrical characteristics		
Switching system	Snap-/slow action	Snap-/slow action
Latching variant	■	■
Max. number of contacts	3	3
Max. switching capacity U/I	240 VAC / 3 A; 24 VDC / 1.5 A	240 VAC / 3 A; 24 VDC / 3 A
Max. switching capacity U/I (M12 connector, 4-pole)	240 VAC / 1.5 A; 24 VDC / 1.5 A	50 VAC / 3 A; 24 VDC / 3 A
Max. switching capacity U/I (M12 connector, 6-pole)	1.5 A / 24 VDC	-
Max. switching capacity U/I (M12 connector, 8-pole)	-	30 VAC / 2 A; 24 VDC / 2 A
Mechanical data		
Housing material	Metal / thermoplastic enclosure	Metal enclosure, painted
Connector	Cable 4/6 pole M12 connector 4/6 pole	1 x M20 M12 connector 5/8 pole
Cable section ³⁾	4/6 x 0.5 mm ²	max. 1.5 mm ² (incl. conductor ferrules)
Dimensions (W x H x D)	31 x 52 x 16.6 mm	31 x 66 x 33 mm
Environmental conditions		
Ambient temperature	-30 °C ... +80 °C	-30 °C ... +80 °C
Degree of protection	IP66, IP67	IP66, IP67
Actuator heads	see page 12	see page 12

Safety classification

Standards	EN ISO 13849-1	EN ISO 13849-1
B_{10D} NC contact	20,000,000	20,000,000
Certificates	cULus, CCC, EAC	cULus, CCC, EAC



To get detailed information about the products and certificates, visit products.schmersal.com.



■ PS216



■ PS226



■ PS315



■ PS316

- Simplified connection (connection terminals rotated by 45°)
- Folding latching cover
- Complete device or modular construction kit
- Design to EN 50047

- Simplified connection (connection terminals rotated by 45°)
- Folding latching cover
- Complete device or modular construction kit
- Design to EN 50047

- Simplified connection (connection terminals rotated by 45°)
- Robust design
- Complete device or modular construction kit
- Design to EN 50041

- Simplified connection (connection terminals rotated by 45°)
- Folding latching cover
- Complete device or modular construction kit
- Design to EN 50041

Snap-/slow action	Snap-/slow action	Snap-/slow action	Snap-/slow action
■	■	–	–
3	3	3	3
240 VAC / 3 A; 24 VDC / 3 A	240 VAC / 3 A; 24 VDC / 3 A	240 VAC / 3 A; 24 VDC / 3 A	240 VAC / 3 A; 24 VDC / 3 A
240 VAC / 3 A; 24 VDC / 3 A	240 VAC / 3 A; 24 VDC / 3 A	50 VAC / 3 A; 24 VDC / 3 A	240 VAC / 3 A; 24 VDC / 3 A
–	–	–	–
30 VAC / 2 A; 24 VDC / 2 A	30 VAC / 2 A; 24 VDC / 2 A	30 VAC / 2 A; 24 VDC / 2 A	30 VAC / 2 A; 24 VDC / 2 A
Plastic housing	Plastic housing	Metal enclosure, painted	Plastic housing
1 x M20 M12 connector 4/8 pole max. 1.5 mm ² (incl. conductor ferrules)	2 x M20 M12 connector 4/8 pole max. 1.5 mm ² (incl. conductor ferrules)	1 x M20 M12 connector 5/8 pole max. 1.5 mm ² (incl. conductor ferrules)	1 x M20 M12 connector 4/8 pole max. 1.5 mm ² (incl. conductor ferrules)
31 x 66 x 33 mm	31 x 59.2 x 33 mm	40 x 77.7 x 37.2 mm	40 x 77.7 x 37.2 mm
–30 °C ... +80 °C	–30 °C ... +80 °C	–30 °C ... +80 °C	–30 °C ... +80 °C
IP66, IP67	IP66, IP67	IP66, IP67	IP66, IP67
see page 12	see page 12	see page 16	see page 16

EN ISO 13849-1	EN ISO 13849-1	EN ISO 13849-1	EN ISO 13849-1
20,000,000	20,000,000	20,000,000	20,000,000
cULus, CCC, EAC	cULus, CCC, EAC	cULus, CCC, EAC	cULus, CCC, EAC

POSITION SWITCHES

PS116 / PS2XX – ACTUATOR HEADS



Plunger S200



Roller plunger R200

Actuator heads

Actuator description	Thermoplastic plunger Actuator type B according to EN 50047	Thermoplastic roller plunger Actuator type C according to EN 50047
Positive break force	> 40 N	> 40 N
Actuating speed	min. 10 mm/min, max. 0.5 m/s	min. 10 mm/min, max. 0.5 m/s
Snap action		
Slow action	min. 60 mm/min, max. 0.5 m/s	min. 60 mm/min, max. 0.5 m/s
Positioning the lever	-	-

Ordering data modular construction kit

Product type description	PS-S200	PS-R200
Material number	103010968	103010967

Switch travel diagrams

Actuator	Action	Contact Configuration	Diagram 1	Diagram 2
Plunger S200	Snap action	Per NO contact / per NC contact		
	Slow action	Per NO contact / per NC contact		
Roller plunger R200	1 NO / 1 NC with overlapping			
	2 NC with staggered contacts			

Contact closed

Contact open

Positive break travel / angle



Offset roller lever K200



Offset roller lever K210



Angle roller lever K230

Thermoplastic offset roller lever
Actuator type E according to EN 50047

> 40 N

min. 10 mm/min,
max. 1 m/s

min. 60 mm/min,
max. 1 m/s

-

Thermoplastic offset roller lever

> 40 N

min. 10 mm/min,
max. 1 m/s

min. 60 mm/min,
max. 1 m/s

-

Thermoplastic angle roller lever

> 40 N

min. 10 mm/min,
max. 1 m/s

min. 60 mm/min,
max. 1 m/s

-

PS-K200

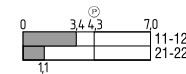
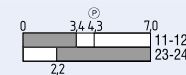
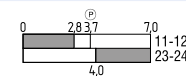
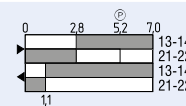
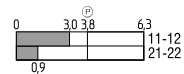
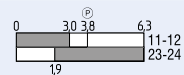
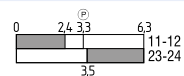
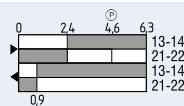
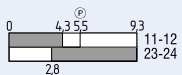
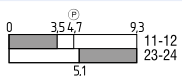
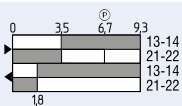
103010961

PS-K210

103010962

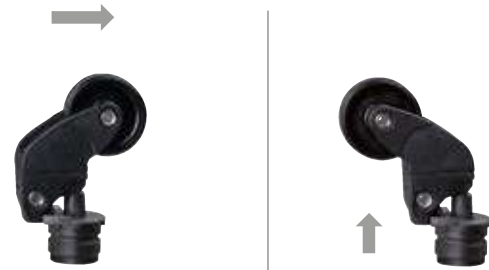
PS-K230

103010963



POSITION SWITCHES

PS116 / PS2XX – ACTUATOR HEADS



Angle roller lever K240 **Angle roller lever K250**

Actuator heads

Actuator description	Thermoplastic angle roller lever	Thermoplastic angle roller lever
Positive break force	> 40 N	> 40 N
Actuating speed	min. 10 mm/min,	min. 10 mm/min,
Snap action	max. 1 m/s	max. 1 m/s
Slow action	min. 60 mm/min,	min. 60 mm/min,
	max. 1 m/s	max. 1 m/s
Positioning the lever	-	-

Ordering data modular construction kit

Product type description	PS-K240	PS-K250
Material number	103010964	103010965

Switch travel diagrams

Snap action	Per NO contact / per NC contact		
Slow action	Per NO contact / per NC contact		
	1 NO / 1 NC with overlapping		
	2 NC with staggered contacts		

Contact closed

Contact open

Positive break travel / angle



Roller lever H200



Roller lever N200



Roller lever J200

Metal lever with plastic roller
Actuator type A according to EN 50047

Length adjustable metal lever
with plastic roller
adjustable in 2 mm increments

Plastic rod, 200 mm
Can only be used for positioning tasks

> 40 N

min. 10 mm/min,
max. 1 m/s

min 60 mm/min,
max. 1 m/s

adjustable in 15° steps

> 40 N

min. 10 mm/min,
max. 1 m/s

min. 60 mm/min,
max. 1 m/s

adjustable in 15° steps

–

min. 10 mm/min,
max. 1 m/s

min 60 mm/min,
max. 1 m/s

adjustable in 15° steps

PS-H200

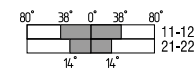
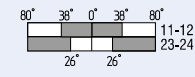
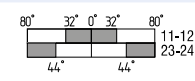
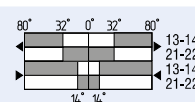
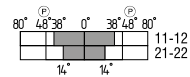
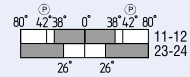
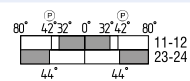
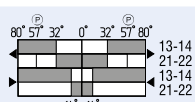
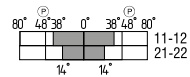
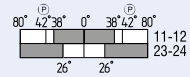
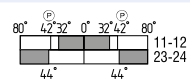
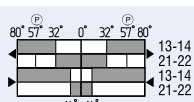
103010948

PS-N200

103010966

PS-J200

103010951



POSITION SWITCHES

PS3XX – ACTUATOR HEADS



Plunger S300



Roller plunger R300

Actuator heads

Actuator description	Thermoplastic plunger Actuator type B according to EN 50041	Thermoplastic roller plunger Actuator type C according to EN 50041
Positive break force	> 50 N	> 50 N
Actuating speed	min. 10 mm/min, max. 0.5 m/s	min. 10 mm/min, max. 0.5 m/s
Snap action		
Slow action	min. 60 mm/min, max. 0.5 m/s	min. 60 mm/min, max. 0.5 m/s
Positioning the lever	-	-

Ordering data modular construction kit

Product type description	PS-S300	PS-R300
Material number	103015397	103015398

Switch travel diagrams

Actuator	Switch action	Contact configuration	Plunger S300 Diagram	Roller plunger R300 Diagram
Snap action	Per NO contact / per NC contact	1 NO / 1 NC with overlapping		
	Per NO contact / per NC contact	2 NC with staggered contacts		
Slow action	Per NO contact / per NC contact	1 NO / 1 NC with overlapping		
	Per NO contact / per NC contact	2 NC with staggered contacts		

Contact closed

Contact open

Positive break travel / angle



Angle roller lever K360



Offset roller lever K370



Roller lever H300

Thermoplastic angle roller lever	Thermoplastic offset roller lever	Metal lever with plastic roller Actuator type A according to EN 50041
> 50 N	> 50 N	> 50 N
min. 10 mm/min, max. 1 m/s	min. 10 mm/min, max. 1 m/s	min. 10 mm/min, max. 1 m/s
min. 60 mm/min, max. 1 m/s	min. 60 mm/min, max. 1 m/s	min. 60 mm/min, max. 1 m/s
-	-	adjustable in 15° steps
PS-K360 103015399	PS-K370 103015400	PS-H300 103015401

POSITION SWITCHES

PS3XX – ACTUATOR HEADS



Roller lever N300 | **Roller lever J300**

Actuator heads

Actuator description	Length adjustable metal lever with plastic roller adjustable in 2 mm increments	Plastic rod, 200 mm Can only be used for positioning tasks Actuator type A according to EN 50041
Positive break force	> 50 N	–
Actuating speed	min. 10 mm/min, max. 1 m/s	min. 10 mm/min, max. 1 m/s
Slow action	min. 60 mm/min, max. 1 m/s	min. 60 mm/min, max. 1 m/s
Positioning the lever	adjustable in 15° steps	adjustable in 15° steps

Ordering data modular construction kit

Product type description	PS-N300	PS-J300
Material number	103015402	103015403

Switch travel diagrams

Snap action	Per NO contact / per NC contact		
Slow action	Per NO contact / per NC contact		
	1 NO / 1 NC with overlapping		
	2 NC with staggered contacts		

■ Contact closed

□ Contact open

Ⓟ Positive break travel / angle

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[PRODUCTS.SCHMERSAL.COM](https://products.schmersal.com)

POSITION SWITCHES

PS116 – PREFERRED TYPES AND ORDERING DETAILS



Position switch with actuating element	Termination	Switching system	NO contacts	NC contacts	Type	Material number	
S200 Basic switch	Connector plug	Snap action	1	1	PS116-Z11-ST-S200	103006651	
			1	2	PS116-Z12-ST-S200	103006662	
		Slow action	1	1	PS116-T11-ST-S200	103006652	
	Pre-wired Cable	Snap action	1	1	PS116-Z11-L200-S200	103006633	
			1	2	PS116-Z12-L200-S200	103006647	
		Snap action with latch	1	1	PS116-Z11R-L200-S200	103009907	
			0	2	PS116-Z02R-L200-S200	103012043	
		Slow action	1	1	PS116-T11-L200-S200	103006634	
	R200	Connector plug	Snap action	1	1	PS116-Z11-ST-R200	103006653
				0	2	PS116-Z02-ST-R200	103008391
1				2	PS116-Z12-ST-R200	103006663	
Snap action with latch			1	2	PS116-Z12R-ST-R200	103009897	
Slow action			1	1	PS116-T11-ST-R200	103006654	
Pre-wired Cable		Snap action	2	1	PS116-T21-ST-R200	103009215	
			1	1	PS116-Z11-L200-R200	103006635	
		Slow action	1	1	PS116-T11-L200-R200	103006636	
			1	2	PS116-T12-L200-R200	103006648	
			1	1	PS116-Z11-L200-R200	103006635	
K200	Connector plug	Snap action	1	1	PS116-Z11-ST-K200	103006655	
			1	2	PS116-Z12-ST-K200	103006664	
	Pre-wired Cable		1	1	PS116-Z11-L200-K200	103006637	
K210	Connector plug	Snap action	1	1	PS116-Z11-ST-K210	103006656	
			1	2	PS116-Z12-ST-K210	103009491	
		Slow action	1	1	PS116-T11-ST-K210	103006657	
			2	1	PS116-T21-ST-K210	103013834	
	Pre-wired Cable	Snap action	1	1	PS116-Z11-L200-K210	103006638	
		Snap action with latch	1	2	PS116-Z12R-L200-K210	103009906	
		Slow action	1	1	PS116-T11-L200-K210	103006639	
K230	Connector plug	Snap action	1	1	PS116-Z11-ST-K230	103006658	
		Slow action	0	2	PS116-T02-ST-K230	103014690	
	Pre-wired Cable	Snap action	1	1	PS116-Z11-L200-K230	103006640	
			0	2	PS116-Z02-L200-K230	103011608	
K240	Connector plug	Snap action	1	2	PS116-Z12-ST-K240	103006665	
	Pre-wired Cable		1	1	PS116-Z11-L200-K240	103006641	
K250	Connector plug	Snap action	1	2	PS116-Z12-ST-K250	103006666	
		Slow action	1	2	PS116-T12-ST-K250	103006667	
	Pre-wired Cable	Snap action	1	1	PS116-Z11-L200-K250	103006642	
			1	1	PS116-T11-L200-K250	103006643	
		Slow action	1	2	PS116-T12-L200-K250	103015281	

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POSITION SWITCHES

PS116 – PREFERRED TYPES AND ORDERING DETAILS



Position switch with actuating element	Termination	Switching system	NO contacts	NC contacts	Type	Material number
H200	Connector plug	Snap action	1	1	PS116-Z11-ST-H200	103006659
			1	2	PS116-Z12-ST-H200	103009490
		Slow action	1	1	PS116-T11-ST-H200	103006660
			1	2	PS116-T12-ST-H200	103006668
			0	3	PS116-T03-ST-H200	103012315
	Pre-wired Cable	Snap action	1	1	PS116-Z11-L200-H200	103006644
		Slow action	1	1	PS116-T11-L200-H200	103006645
			1	2	PS116-T12-L200-H200	103006649
N200	Connector plug	Snap action	1	1	PS116-Z11-ST-N200	103006661
			1	2	PS116-Z12-ST-N200	103010921
		Slow action	1	1	PS116-T11-ST-N200	103011367
			2	0	PS116-T20-ST-N200	103010065
			1	2	PS116-T12-ST-N200	103011553
			2	1	PS116-T21-ST-N200	103010067
	Pre-wired Cable	Snap action	1	1	PS116-Z11-L200-N200	103006646
			1	2	PS116-Z12-L200-N200	103008748
		Slow action	1	2	PS116-T12-L200-N200	103006650
J200	Connector plug	Slow action with staggered contacts	0	2	PS116-T02H-ST-J200	103014413

POSITION SWITCHES

PS2XX – PREFERRED TYPES AND ORDERING DETAILS



Position switch with actuating element	Switching system	NO contacts	NC contacts	Type	Material number		
S200 Basic switch	PS215 Metal	Snap action	1	1	PS215-Z11-S200	103014952	
			0	2	PS215-Z02-S200	103014953	
			1	2	PS215-Z12-S200	103014954	
		Slow action	1	1	PS215-T11-S200	103014977	
			0	2	PS215-T02-S200	103014978	
			1	2	PS215-T12-S200	103014979	
	PS216 Thermoplastic	Snap action	1	1	PS216-Z11-S200	103013713	
			0	2	PS216-Z02-S200	103015001	
			1	2	PS216-Z12-S200	103015002	
		Slow action	1	1	PS216-T11-S200	103015022	
			0	2	PS216-T02-S200	103015023	
			1	2	PS216-T12-S200	103015024	
	PS226 Thermoplastic	Snap action	1	1	PS226-Z11-S200	103015048	
			0	2	PS226-Z02-S200	103015049	
			1	2	PS226-Z12-S200	103015050	
		Slow action	1	1	PS226-T11-S200	103015073	
			0	2	PS226-T02-S200	103015074	
			1	2	PS226-T12-S200	103015075	
	R200	PS215 Metal	Snap action	1	1	PS215-Z11-R200	103014955
			Slow action	1	1	PS215-T11-R200	103014981
		PS216 Plastic	Snap action	1	1	PS216-Z11-R200	103015003
0				2	PS216-Z02-R200	103015004	
1				2	PS216-Z12-R200	103015005	
Slow action			1	1	PS216-T11-R200	103015028	
			0	2	PS216-T02-R200	103015029	
			1	2	PS216-T12-R200	103015030	
PS226 Thermoplastic		Snap action	1	1	PS226-Z11-R200	103015051	
		Slow action	1	1	PS226-T11-R200	103015076	

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POSITION SWITCHES

PS2XX – PREFERRED TYPES AND ORDERING DETAILS



Position switch with actuating element		Switching system	NO contacts	NC contacts	Type	Material number	
K200	PS216 Plastic	Snap action	1	1	PS216-Z11-K200	103015006	
		Slow action	1	1	PS216-T11-K200	103015031	
K210	PS215 Metal	Snap action	1	1	PS215-Z11-K210	103014960	
		Slow action	1	1	PS215-T11-K210	103015008	
	PS216 Thermoplastic	Snap action	1	1	PS216-Z11-K210	103015008	
		Slow action	1	1	PS216-T11-K210	103015033	
K230	PS215 Metal	Snap action	1	1	PS215-Z11-K230	103014963	
		Slow action	1	1	PS215-T11-K230	103014988	
	PS216 Thermoplastic	Snap action	1	1	PS216-Z11-K230	103015010	
		Slow action	1	1	PS216-T11-K230	103015035	
	K240	PS215 Metal	Slow action	1	1	PS215-T11-K240	103014991
			Snap action	1	1	PS216-Z11-K240	103015013
PS216 Thermoplastic		Slow action	1	1	PS216-T11-K240	103015038	
		Snap action	1	1	PS226-Z11-K240	103015061	
K250	PS216 Thermoplastic	Snap action	1	1	PS216-Z11-K250	103015015	
		Slow action	1	1	PS216-T11-K250	103015040	
H200	PS215 Metal	Slow action	1	1	PS215-T11-H200	103014995	
		Snap action	1	1	PS216-Z11-H200	103013857	
	PS216 Thermoplastic	Snap action	1	2	PS216-Z12-H200	103015017	
		Slow action	1	1	PS216-T11-H200	103015042	
		Slow action	1	2	PS216-T12-H200	103015043	
		Slow action	1	2	PS216-T12-H200	103015043	
N200	PS215 Metal	Snap action	1	1	PS215-Z11-N200	103014972	
		Slow action	1	1	PS215-T11-N200	103014997	
	PS216 Thermoplastic	Snap action	1	1	PS216-Z11-N200	103015018	
		Snap action	1	2	PS216-Z12-N200	103015019	
		Slow action	1	1	PS216-T11-N200	103015044	
		Slow action	1	2	PS216-T12-N200	103015045	
	J200	PS215 Metal	Snap action	1	1	PS215-Z11-J200	103014974
		PS216 Thermoplastic	Snap action	1	1	PS216-Z11-J200	103015020

POSITION SWITCHES

PS3XX – PREFERRED TYPES AND ORDERING DETAILS



Position switch with actuating element	Switching system	NO contacts	NC contacts	Type	Material number		
S200 Basic switch	PS315 Metal	Snap action	1	1	PS315-Z11-S200	103015406	
			0	2	PS315-Z02-S200	103015407	
			1	2	PS315-Z12-S200	103015408	
		Slow action	1	1	PS315-T11-S200	103015412	
			0	2	PS315-T02-S200	103015414	
			1	2	PS315-T12-S200	103015415	
	PS316 Thermoplastic	Snap action	1	1	PS316-Z11-S200	103015409	
			0	2	PS316-Z02-S200	103015410	
			1	2	PS316-Z12-S200	103015411	
		Slow action	1	1	PS316-T11-S200	103015417	
			0	2	PS316-T02-S200	103015418	
			1	2	PS316-T12-S200	103015419	
	S300	PS315 Metal	Snap action	1	1	PS315-Z11-S300	103015096
				0	2	PS315-Z02-S300	103015097
				1	2	PS315-Z12-S300	103015098
Slow action			1	1	PS315-T11-S300	103015112	
			0	2	PS315-T02-S300	103015113	
			1	2	PS315-T12-S300	103015114	
PS316 Thermoplastic		Snap action	1	1	PS316-Z11-S300	103015129	
			0	2	PS316-Z02-S300	103015130	
			1	2	PS316-Z12-S300	103015131	
		Slow action	1	1	PS316-T11-S300	103015146	
			0	2	PS316-T02-S300	103015147	
			1	2	PS316-T12-S300	103015148	
R300		PS315 Metal	Snap action	1	1	PS315-Z11-R300	103015099
				0	2	PS315-Z02-R300	103015100
			Slow action	1	1	PS315-T11-R300	103015116
	0			2	PS315-T02-R300	103015117	
	PS316 Thermoplastic	Snap action	1	1	PS316-Z11-R300	103015132	
			0	2	PS316-Z02-R300	103015133	
		Slow action	1	1	PS316-T11-R300	103015152	
			0	2	PS316-T02-R300	103015153	

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POSITION SWITCHES

PS3XX – PREFERRED TYPES AND ORDERING DETAILS



Position switch with actuating element		Switching system	NO contacts	NC contacts	Type	Material number
K360	PS315 Metal	Snap action	1	1	PS315-Z11-K360	103015102
		Slow action	1	1	PS315-T11-K360	103015119
	PS316 Thermoplastic	Snap action	1	1	PS316-Z11-K360	103015135
		Slow action	1	1	PS316-T11-K360	103015155
K370	PS315 Metal	Snap action	1	1	PS315-Z11-K370	103015104
		Slow action	1	1	PS315-T11-K370	103015121
	PS316 Thermoplastic	Snap action	1	1	PS316-Z11-K370	103015137
		Slow action	1	1	PS316-T11-K370	103015157
H300	PS315 Metal	Snap action	1	1	PS315-Z11-H300	103015106
		Slow action	1	1	PS315-T11-H300	103015123
	PS316 Thermoplastic	Snap action	1	1	PS316-Z11-H300	103015139
		Slow action	1	2	PS316-T12-H300	103015160
N300	PS315 Metal	Snap action	1	1	PS315-Z11-N300	103015108
		Slow action	1	1	PS315-T11-N300	103015125
	PS316 Thermoplastic	Snap action	1	1	PS316-Z11-N300	103015141
		Slow action	1	2	PS316-T12-N300	103015162
J300	PS315 Metal	Snap action	1	1	PS315-Z11-J300	103015110
		Slow action	1	1	PS315-T11-J300	103015127
	PS316 Thermoplastic	Snap action	1	1	PS316-Z11-J300	103015143
		Slow action	1	1	PS316-T11-J300	103015163

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