MIKROSCHALTER
MICRO SWITCH

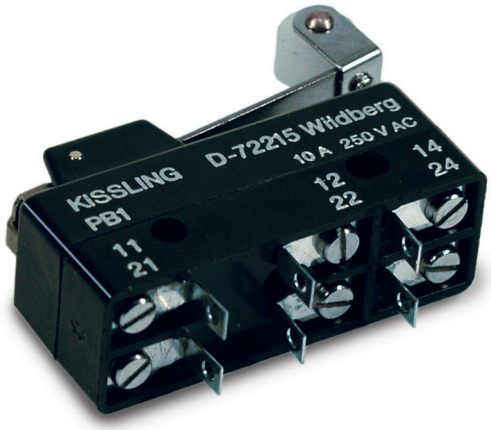
Baureihe
Series

PS1
PB1









Die Baureihe PS/PB zeichnet sich durch ein robustes Schaltwerk aus, das Stromgrößen von 0,2 A bis 15 A sicher schalten kann und eine hohe mechanische Lebensdauer aufweist. Die Schalter sind wahlweise als Wechsler, Schliesser oder Öffner anschliessbar. Bauform nach DIN 41635-E.

Typische Anwendungen:

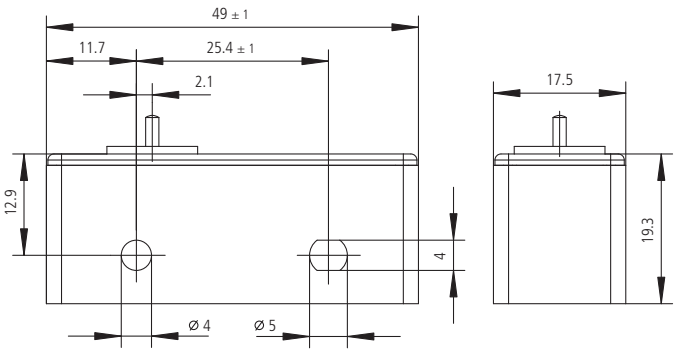
- Fahrzeugbau
- Allgemeiner Maschinenbau
- Anlagen- und Apparatebau
- Medizintechnik

Series PS/PB is distinguished by a robust operating mechanism which can reliably switch currents of 0.2 A to 15 A and has a long mechanical lifetime. The micro switches can be connected in normally open, normally closed or changeover configurations. Type i.a.w. DIN 41635-E.

Typical applications:

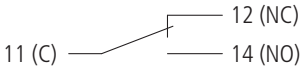
- *Automotive Equipment*
- *Industrial Mechanical Engineering*
- *Appliance and Industrial Engineering*
- *Medical Equipment*

Abmessungen | *Dimensions*

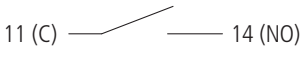


Schaltfunktion | *Switching function*

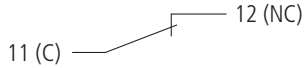
1 **Wechsler**
Change-over



2 **Schliesser**
NO



3 **Öffner**
NC



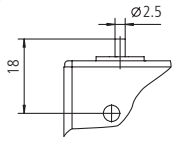
Betätiger (Auswahl) | *Actuators*

Rollen aus Kunststoff,
wahlweise auch in CuZn
oder Stahl lieferbar

Rollermaterial Plastic
optional material Brass
or Steel

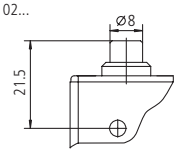
Legende | ***Overview***		**V** Vorlaufweg | *Pretravel*
Sk Schaltklasse	*Class*	**N** Nachlaufweg | *Overtravel*
S Schaltkraft	*Operating force*	**D** Differenzweg | *Movement differential*

PS/PB1 01...



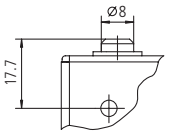
01		**PS**		**PB**
Sk		**2**	**3**	**3**
S	**N**	2.5-4.5	3.5-6.5	4.0-8.0
V	**mm**	0.3-0.8		0.5-1.2
N	**mm**	>0.2		>0.2
D	**mm**	0.05-0.15		0.1-0.2

PS/PB1 02...



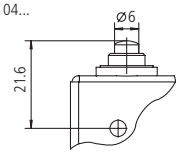
02		**PS**		**PB**
Sk		**2**	**3**	**3**
S	**N**	2.5-4.5	3.5-6.5	4.0-8.0
V	**mm**	0.3-0.8		0.6-1.2
N	**mm**	>1.5		>0.8
D	**mm**	0.05-0.15		0.1-0.2

PS/PB1 03...



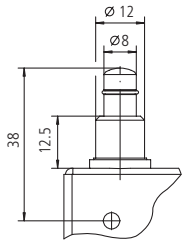
03		**PS**		**PB**
Sk		**2**	**3**	**3**
S	**N**	2.5-4.5	3.5-6.5	4.0-8.0
V	**mm**	0.3-0.8		0.6-1.2
N	**mm**	>1.0		>0.8
D	**mm**	0.05-0.15		0.1-0.2

PS/PB1 04...



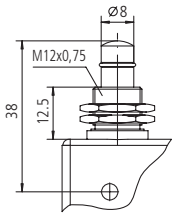
04		**PS**		**PB**
Sk		**2**	**3**	**3**
S	**N**	2.5-4.5	3.5-6.5	4.0-8.0
V	**mm**	0.3-0.8		0.6-1.2
N	**mm**	>1.0		>1.5
D	**mm**	0.05-0.15		0.1-0.2

PS/PB1 06...



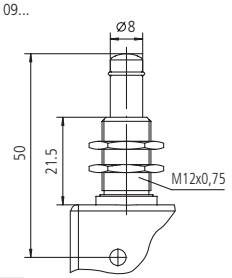
06		**PS**		**PB**
Sk		**2**	**3**	**3**
S	**N**	2.5-4.5	3.5-6.5	4.0-8.0
V	**mm**	0.3-0.8		0.6-1.2
N	**mm**	>4.0		>4.5
D	**mm**	0.05-0.15		0.1-0.2

PS/PB1 08...



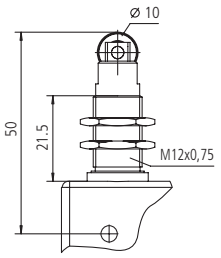
08		**PS**		**PB**
Sk		**2**	**3**	**3**
S	**N**	2.5-4.5	3.5-6.5	4.0-8.0
V	**mm**	0.3-0.8		0.6-1.2
N	**mm**	>4.0		>4.5
D	**mm**	0.05-0.15		0.1-0.2

PS/PB1 09...



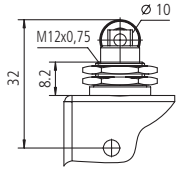
09		**PS**		**PB**
Sk		**2**	**3**	**3**
S	**N**	2.5-4.5	3.5-6.5	4.0-8.0
V	**mm**	0.3-0.8		0.6-1.2
N	**mm**	>9.0		>9.0
D	**mm**	0.05-0.15		0.1-0.2

PS/PB1 10...



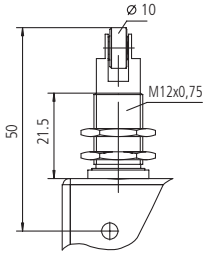
10		**PS**		**PB**
Sk		**2**	**3**	**3**
S	**N**	2.5-4.5	3.5-6.5	4.0-8.0
V	**mm**	0.3-0.8		0.6-1.2
N	**mm**	>4.0		>4.0
D	**mm**	0.05-0.15		0.1-0.2

PS/PB1 11...



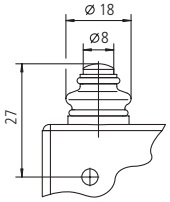
11		**PS**		**PB**
Sk		**2**	**3**	**3**
S	**N**	2.5-4.5	3.5-6.5	4.0-8.0
V	**mm**	0.3-0.8		0.6-1.2
N	**mm**	>1.5		>1.5
D	**mm**	0.05-0.15		0.1-0.2

PS/PB1 12...



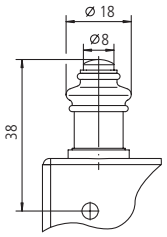
12		**PS**		**PB**
Sk		**2**	**3**	**3**
S	**N**	2.5-4.5	3.5-6.5	4.0-8.0
V	**mm**	0.3-0.8		0.6-1.2
N	**mm**	>4.0		>4.0
D	**mm**	0.05-0.15		0.1-0.2

PS/PB1 13...



13		**PS**	**PB**
Sk		**3**	**3**
S	**N**	3.5-6.5	4.0-8.0
V	**mm**	0.3-0.8	0.6-1.2
N	**mm**	>1.0	>0.8
D	**mm**	0.05-0.15	0.1-0.2

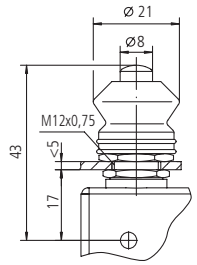
PS/PB1 14...



14		**PS**	**PB**
Sk		**3**	**3**
S	**N**	3.5-6.5	4.0-8.0
V	**mm**	0.3-0.8	0.6-1.2
N	**mm**	>2.0	>2.0
D	**mm**	0.05-0.15	0.1-0.2

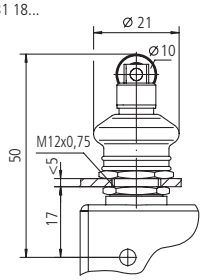
Betätiger (Auswahl) | *Actuators*

PS/PB1 15...



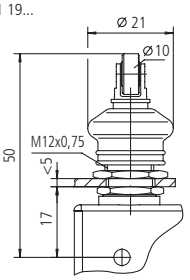
15	PS	PB
Sk	3	3
S N	3.5-6.5	4.0-8.0
V mm	0.3-0.8	0.6-1.2
N mm	>4.0	>4.0
D mm	0.05-0.15	0.1-0.2

PS/PB1 18...



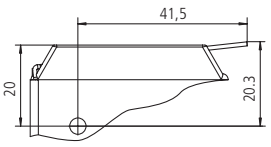
18	PS	PB
Sk	3	3
S N	3.5-6.5	4.0-8.0
V mm	0.3-0.8	0.6-1.2
N mm	>2.0	>2.0
D mm	0.05-0.15	0.1-0.2

PS/PB1 19...



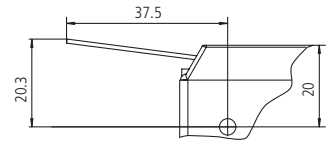
19	PS	PB
Sk	3	3
S N	3.5-6.5	4.0-8.0
V mm	0.3-0.8	0.6-1.2
N mm	>2.0	>2.0
D mm	0.05-0.15	0.1-0.2

PS/PB1 30...



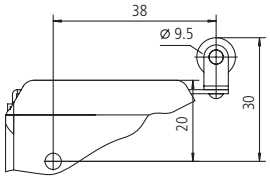
30	PS	PB
Sk	3	3
S N	0.3-1.0	0.3-0.6
V mm	2.0-5.0	3.0-6.0
N mm	>1.5	>2.5
D mm	0.5-1.5	0.8-1.5

PS/PB1 31...



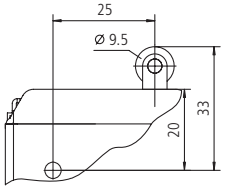
31	PS	PB
Sk	3	3
S N	0.3-1.0	0.3-0.6
V mm	2.0-5.0	3.0-7.0
N mm	>1.5	>2.5
D mm	0.5-1.5	0.8-1.5

PS/PB1 35...



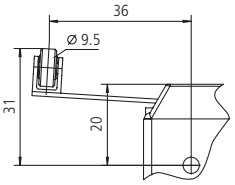
35	PS	PB
Sk	3	3
S N	0.2-0.5	0.3-0.6
V mm	1.5-4.0	3.0-6.0
N mm	>1.5	>2.5
D mm	0.6-1.5	0.8-1.5

PS/PB1 36...



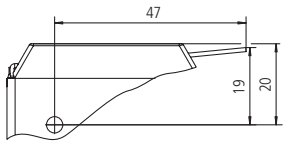
36	PS	PB
Sk	3	3
S N	0.6-1.4	0.4-0.8
V mm	1.5-3.0	2.0-4.0
N mm	>0.8	>1.0
D mm	0.3-1.0	0.5-1.2

PS/PB1 40...



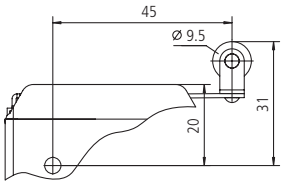
40	PS	PB
Sk	3	3
S N	0.3-1.0	0.3-1.0
V mm	2.0-5.0	3.0-7.0
N mm	>1.5	>2.0
D mm	0.5-1.5	0.8-2.0

PS/PB1 60...



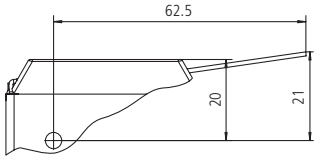
60	PS	PB
Sk	3	3
S N	0.5-1.5	0.4-0.7
V mm	3.0-5.5	2.5-5.0
N mm	>2.0	>2.5
D mm	0.5-1.5	0.8-1.8

PS/PB1 65...



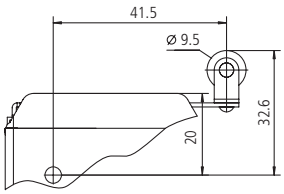
65	PS	PB
Sk	3	3
S N	0.5-1.5	0.4-0.7
V mm	3.0-5.5	2.5-5.0
N mm	>2.0	>2.5
D mm	0.5-1.5	0.8-1.8

PS/PB1 91...



91	PS	PB
Sk	3	3
S N	0.3-1.0	0.7-1.3
V mm	3.0-7.0	2.0-5.0
N mm	>3.0	>3.0
D mm	0.6-2.0	0.8-1.8

PS/PB1 94...

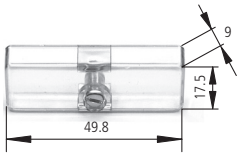


94	PS	PB
Sk	3	3
S N	0.7-1.3	0.9-1.4
V mm	2.5-4.5	2.0-5.0
N mm	>2.0	>2.0
D mm	0.5-1.2	0.6-1.2

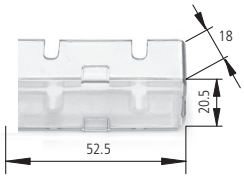
Zubehör | *Accessories*

Hauben, passend auf Schalter mit Anschluss | *Cover, suitable for switches with connectors*

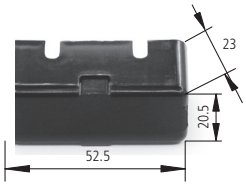
PHDS
PS : 01, 02



PHB
PS, PB : 01, 02



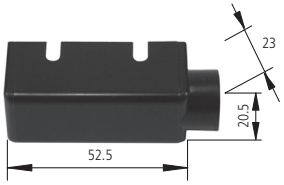
PHC
PS, PB : 01, 02, 03, 09



PH/PHM/PHN
PS, PB : 01, 02, 03



PHT/PHTM/PHTN
PS, PB : 01, 02, 03, 09





Kabeltülle | *Seal ring*
1005668

PH Gewinde PG 9 | *Thread PG 9*
PHM Druckschraube | *Pressure Screw*
PHN Dichtungsnippel | *Sealing plug*

PHT Gewinde PG 9 | *Thread PG 9*
PHTM Druckschraube | *Pressure Screw*
PHTN Dichtungsnippel | *Sealing plug*

Anschlüsse | *Connection types*

PS 01



PS 02



PS 03



PS 04



PS 05



PS 07



PS 08



PS 09



PS 10



PS 20



PB 01



PB 02



PB 04



PB 05



PB 07



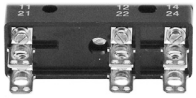
PB 08



PB 09



PB* 10



PB 20**



Flachstecker
Faston terminals

* 6.3 x 0.8
** 4.8 x 0.5

Bestellschlüssel | *Ordering Key*

P□1 . 06 1 . 3 10

1 2 3 4 5

Beispiel | ***Example***

PS1.061.310

1	Baureihe		*Series*
	S einpolig		***S*** *single pole*
	B zweipolig		***B*** *dual pole*
2	Betätiger		*Actuator*
3	Schaltfunktion		*Switching function*
4	Schaltklasse		*Class*
5	Anschlüsse		*Connection types*

Technische Daten | *Technical Data*

Aufbau		***Construction***
Gehäusewerkstoff	Thermoplast GF	*Housing material*
Schutzart Innenraum	IP40 IEC 60529	*Protection interior*
Schutzart Anschluss	IP00 IEC 60529	*Protection terminals*

Mechanische Daten (Wechsler)		***Mechanical Data (Change-over)***
Rückschaltkraft	> 1 N	*Release force*
Betätigungskraft max.	< 10 N	*Max. operating force*
Stromführende Teile	Cu-Legierung | *Cu-alloy*	*Current carrying parts*
Kontaktwerkstoff	Ag-Legierung | *Ag-alloy*	*Contact material*
Mech. Lebensdauer	15 Mio. – 50 Mio.	*Mechanical life*
Schalthäufigkeit	PS 300/min / PB 200/min	*Frequency*
Betätigungsgeschwindigkeit in Stösselrichtung	max. 0.5 m/sec	*Operating speed in direction of plunger*
Umgebungstemperatur	–10°C bis +85°C | *14°F to +185°F*	*Temperature range*

Elektrische Daten		***Electrical Data***
Nennspannung	250 VAC, 24 / 60 / 250 VDC	*Nominal voltage*
Ohmsche Last	**PS** | **PB**	*Resistive load*
Dauerstrom	250 VAC, 15 A (25 A) | 250 VAC, 10 A	*Continuous current*
	24 VDC, 6 A | 24 VDC, 6 A	
	60 VDC, 1.5 A | 60 VDC, 1.5 A	
	250 VDC, 0.2 A | 250 VDC, 0.2 A	
Schaltleistung min.	12 VDC, 6 mA	*Min. switching capacity*

Hinweis Baureihe PB	***Note Series PB***
Gleichzeitiges Kontaktöffnen ist nicht gewährleistet. Direkte Polwendung in der Regel nicht möglich, da die Selbstinduktion einer Spule zeitlich meist länger währt als die Schnappzeit des Schalters (Kurzschluss durch Öffnungsfunken).	*It gives not garantie to open both contacts simultaneously. Direct polarity inverter isn't possible. The induction from coil in time is longer than the switch time (short circuit through break spark)*
Für kleinere Spannungen bzw. Ströme empfehlen wir Schalter mit vergoldeten Kontakten. Kundenspezifische Sonderlösungen auf Anfrage.	*It is recommended to use gold-plated contacts for lower currents or voltages. Special types upon request.*

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Irrtümer und Änderungen vorbehalten
Errors excepted and subject to change