Description

Assemblies and combinations

Individual switches in combination with endcaps can easily be built into block assemblies by integrated snap pins. Spacers and housings can be integrated in any given sequence.

Stops

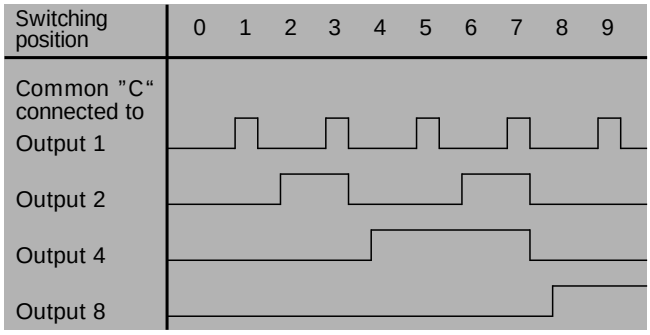
Cherry provides many standard combinations of rotation-limiting stops to help tailor our switches exactly to your application. In series PE stops can be installed in the field.

Circuitry

Standard circuitry is break-before-make (bbm). For make-before-break (mbb), please consult the factory.

Codes

For standard codes please refer to individual switch series. Further and special codes available upon request.



Special circuit boards

If you require a specially constructed PCB (special material, terminals, layout etc.), please consult the factory.

Colors and legends

The standard switch color is black. The wheels are black with white characters. Special colors for housings, wheels and legends are available upon request. We are able to print letters, symbols or figures according to individual requirements.

Mounting of components

Many standard codes are available with an extended PCB for mounting of diodes or resistors.

Truth tables

Table 1: BCD

Readout-symbols	Common C connected to			
	1	2	4	8
0				
1	•			
2		•		
3	•	•		
4			•	
5	•		•	
6		•	•	
7	•	•	•	
8				•
9	•			•

Table 2: Decimal

Readout-symbols	Common C connected to									
	0	1	2	3	4	5	6	7	8	9
0	•									
1		•								
2			•							
3				•						
4					•					
5						•				
6							•			
7								•		
8									•	
9										•

Table 4: Single pole repeating

Readout-symbols			Common C connec. to	
			1	2
+	0	0	•	
–	1	5		•
+	0	0	•	
–	1	5		•
+	0	0	•	
–	1	5		•
+	0	0	•	
–	1	5		•
+	0	0	•	
–	1	5		•

Table 5: Hexadecimal

Readout-symbols	Common C connected to			
	1	2	4	8
0				
1	•			
2		•		
3	•	•		
4			•	
5	•		•	
6		•	•	
7	•	•	•	
8				•
9	•			•
10 (A)		•		•
11 (B)	•	•		•
12 (C)			•	•
13 (D)	•		•	•
14 (E)		•	•	•
15 (F)	•	•	•	•

Table 8: BCD + complement

Readout-symbols	Common C connec. to							
	1	2	3	4	$\bar{1}$	$\bar{2}$	$\bar{4}$	$\bar{8}$
0					•	•	•	•
1	•					•	•	•
2		•				•		•
3	•	•					•	•
4			•		•	•		•
5	•		•			•		•
6		•	•		•			•
7	•	•	•					•
8				•	•	•	•	
9	•			•		•	•	

Table 11: BCD complement

Readout-symbols	Common C connec. to			
	$\bar{1}$	$\bar{2}$	$\bar{4}$	$\bar{8}$
0	•	•	•	•
1		•	•	•
2	•		•	•
3			•	•
4	•	•		•
5		•		•
6	•			•
7				•
8	•	•	•	
9		•	•	

Serie PA

Characteristics

– Selector switches with very small dimensions for front-mounting.
– 10 or 16 switching positions. Housing black.
– Indirect operation upon request.
– Extended PCB for mounting of additional components available.
– Connection with Q.C. terminal or solder pins
– Ilumination upon request.



Technical data

Operating force	approx. 300 cN (with tactile feeling)
Contact resistance	0,1 Ω max.
Insulating resistance	10^3 M Ω
Dielectric strength	500 V⎓
Electrical rating (ohmic restistance)	0,1 A/50 V≃
Max. current (non switching current)	1A
Temperature	-20 bis +80 °C
Life cycle (mechanical)	10^6 operations
Shock	50 g, 11 ms
Vibration	15 g, 10-2000 Hz
Weight	approx. 2 g

Materials

Housing material	PPO (Noryl)
Contacts	WE alloy No. 2
Printed circuit board	G 10 (FR 4) Glass filled epoxy, copper-plated Au over Ni

Mounting

Front-mounting, snap-in end-caps. Mounting of units through integrated pins.

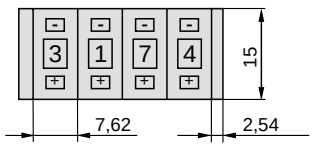
Stops

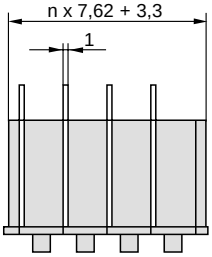
Setting through factory only.

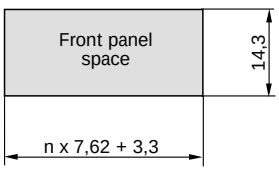
Terminals

Q.C. terminal gold-plated or solder pins.

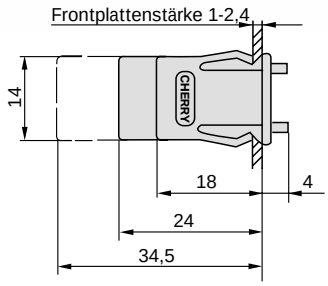
Dimensions in mm



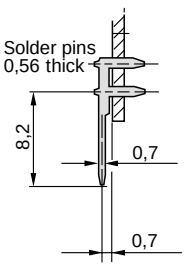




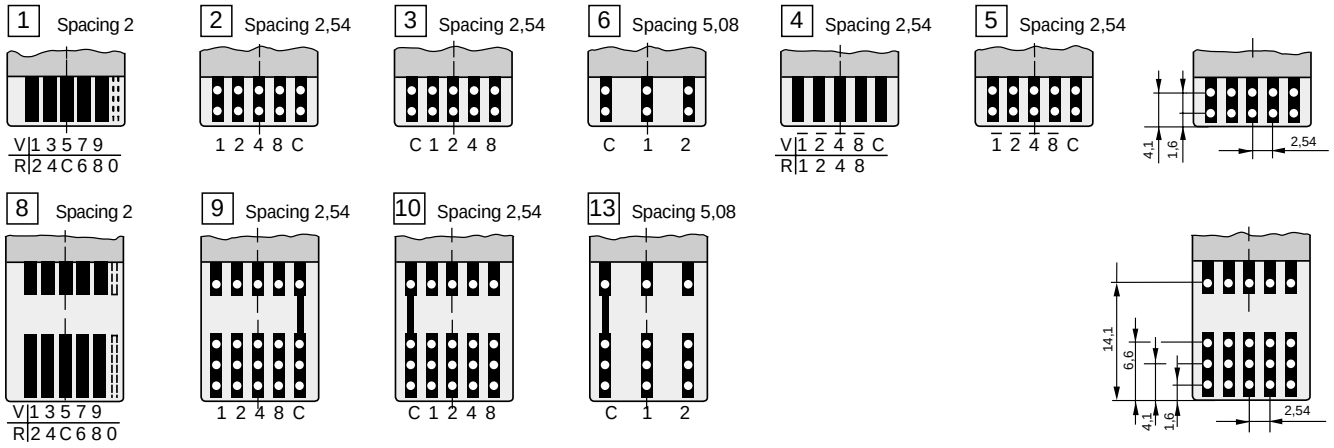
Solder pins not available for codes "Decimal" and "BCD + complement"



Schalt-Positionen	Fenster-Ausschnitt	Ziffern-Höhe
10	B=3,6 H=4	3
16	B=3,6 H=2,5	1,8



PCB terminals



Codes b

Switching position	Code Other codes on request	Readout	Truth table no (refer to page 3)	PCB-terminal no.	PCB short	PCB extended	Code
10	Dezimal	0 - 9	2	1/8	•	•	A
10	BCD	0 - 9	1	2/9	•	•	C
10	BCD Complement	0 - 9	11	5	•		E
10	BCD + Complement	0 - 9	8	4	•		F
10	Single pole repeating	+/– alt.	4	6/13	•	•	P
16	Hexadecimal	0 - 15	5	3/10	•	•	G
16	Hexadecimal	0 - 9, A - F	5	3/10	•	•	H

Terminals c

Terminals	Index
Q.C. terminals	A
Solder pins	F

PCB versions d

PCB version	Index
short	3
extended	4

Accessories for assembly

	Stock codes
Endcap left	609-0801
Endcap right	609-0799
Housing 7,62 mm	609-0797
Spacer 2,54 mm	609-0803

Example

PA:	Series
C:	Code BCD
A:	Q.C. terminal
3:	PCB short
4:	4 indiv. Switches, completely assembled with endcaps
00:	Standard version

Ordering index

a	b	c	d	e	f
PA	C	A	- 3	4	00

e Single switch or qty. or assembled switches (1 – 9) with endcaps

f Version (Standard = 00)

Series PB

Characteristics

– Selector switches with only 6 mm width for compact building of blocks with a larger number of modules.
– 10 switching positions. Housing black.
– Connection with solder pins



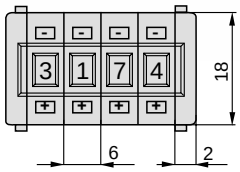
Technical data

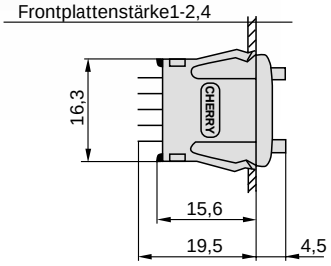
Operating force	approx. 300 cN (with tactile feeling)
Contact resistance	0,1 Ω max.
Insulating resistance	10^3 M Ω
Dielectric strength	500 V⎓
Electrical rating (ohmic restistance)	0,1 A/50 V≃
Max. current (non switching current)	1A
Temperature	-20 bis +80 °C
Life cycle (mechanical)	10^6 operations
Shock	50 g, 11 ms
Vibration	15 g, 10-2000 Hz
Weight	approx. 2 g

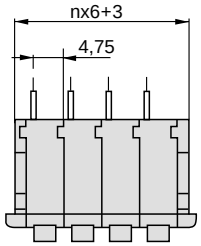
Materials

Housing material	PPO (Noryl)
Contacts	WE alloy
Printed circuit board	FR 3, copper-plated Au over In
Mounting	Front-mounting, snap-in end-caps. Mounting of units through integrated pins.
Stops	Setting through factory only.
Terminals	Solder pins: 0,6 x 0,5 (spacing 2,54)

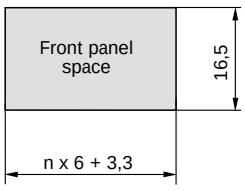
Dimensions in mm

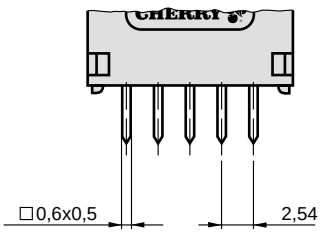






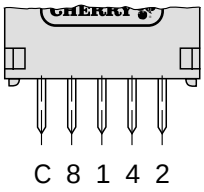
Switching positions	Readout dimensions	Height of legends
10	B=3 H=4	3



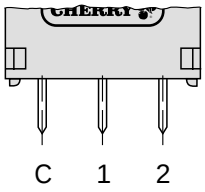


PCB terminals

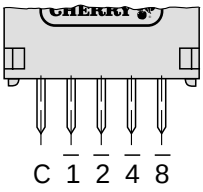
1 Spacing 2,54



2 Spacing 5,08



5 Spacing 2,54



Switching position	Code	Readout	Truth table no.- (refer to page 3)	PCB terminal no.	Code
10	BCD	0 - 9	1	1	C
10	BCD Complement	0 - 9	11	5	E
10	Single pole repeating	+/– alt.	4	2	P

Terminals c

Terminals	Index
Solder pins	1

PCB versions d

PCB version	Code
PCB flush with housing with solder pins	E

Accessories for assembly

Stock codes.

Endcap left	609-1346
Endcap right	609-1347
Housing 6 mm	609-1348

Example

PB:	Series
C:	Code BCD
1:	Solder pins
E:	PCB flush with housing
4:	4 indiv. switches, completely assembled with endcaps
00:	Standard version

Ordering index

a	b	c	d	e	f
PB	C	1	- E	4	00

e Single switch or qty. or assembled switches (1 – 9) with endcaps

f Version (Standard = 00)

Series PE

Characteristics

– Selector switches for easy snap in front-mounting.
– 10 or 16 switching positions. Housing black.
– For switches with 10 switching positions stops can be installed in the field.
– Ilumination upon request.



Technical data

Operating force	approx. 400cN (with tactile feeling)
Contact resistance	0,1 Ω max.
Insulating resistance	10^3 MΩ
Dielectric strength	500 V⎓
Electrical rating (ohmic resistance)	0,1 A/50 V≃
Max. current (non switching current)	1 A
Temperature	-20 to +80 °C
Life cycle (mechanical)	10^6 operations
Shock	50 g, 11 ms
Vibration	15 g, 10-2000 Hz
Weight	approx. 4 g

Materials

Housing material	PPO (Noryl)
Contacts	WE alloy No. 2
Printed circuit board	G 10 (FR 4), Glass filled epoxy, copper-plated Au over Ni

Mounting

Front-mounting, snap-in endcaps. Mounting of units through integrated pins.

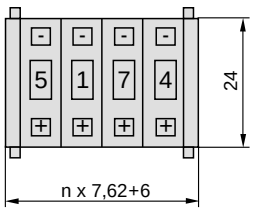
Stops

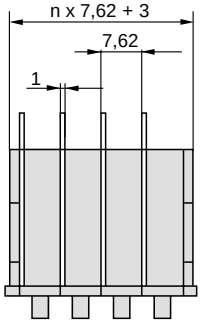
Setting through factory or afterwards in the field (10 switching positions). With 16 switching positions stops can only be set in the factory.

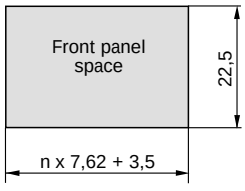
Terminals

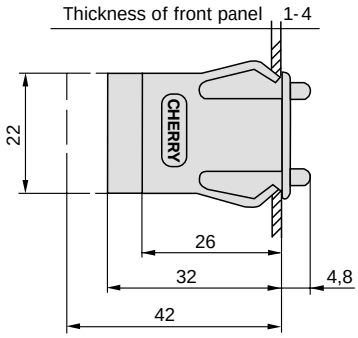
Q.C. terminal gold-plated or solder pins.

Dimensions in mm

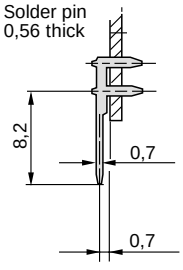




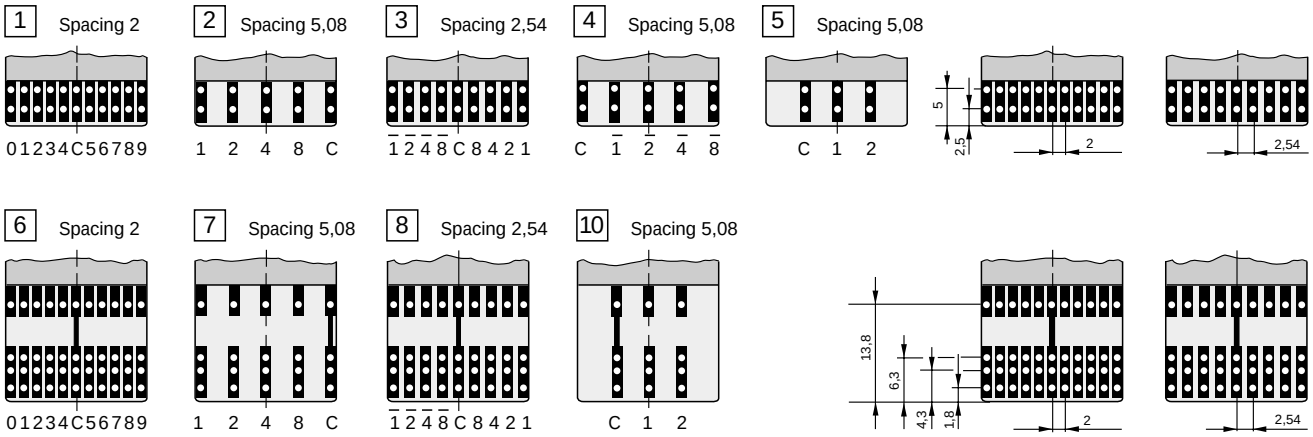




Switching positions	Readout dimensions	Height of legends
10	B=4 H=7	5
16	B=3,8 H=4	3,4



PCB terminals



Codes b

Switching position	Code Other codes on request	Readout-	Truth table-no. (refer to page 3)	PCB terminal no.	PCB short	PCB extended	Code
10	Decimal	0 - 9	2	1/6	•	•	A
10	BCD	0 - 9	1	2/7	•	•	C
10	BCD Complement	0 - 9	11	4	•		E
10	BCD + Complement	0 - 9	8	3/8	•	•	F
10	Single pole repeating	+/– alt.	4	5/10	•	•	P
16	Hexadecimal	0 - 15	5	2/7	•	•	G
16	Hexadecimal	0 - 9, A - F	5	2/7	•	•	H

Terminals c

Terminals	Index
Q.C. terminal	A
Solder pins	F

PCB versions d

PCB version	Index
short	3
extended	4

Accessories for assembly

	Stock codes
Endcap left	609-0754
Endcap right	609-0756
Housing 7,62 mm	609-0752
Spacer 2,54 mm	609-0760
Spacer 2,54 mm without snap-in brackets	609-1609
Stop pin	607-0013

Example

PE:	Series
C:	Code BCD
A:	Q.C. terminal
3:	PCB short
4:	4 indiv. switches, completely assembled with endcaps
00:	Standard version

Ordering index

a	b	c		d	e	f
PE	C	A	-	3	4	00

e Single switch or qty. or assembled switches (1 – 9) with endcaps

f Version (Standard = 00)

Connectors

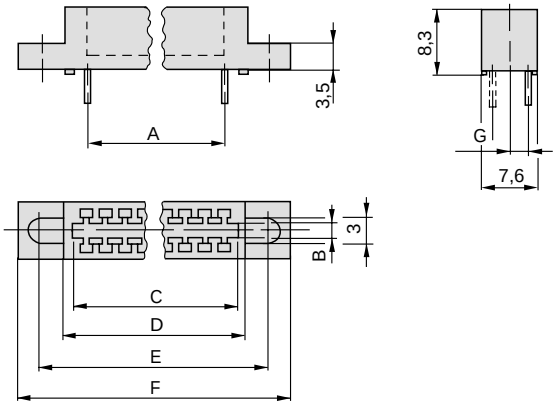


Connectors make the connection of the selector switches very easy. The female connectors are available with and without flange. Terminals of the connectors either solder pin or solder lugs.

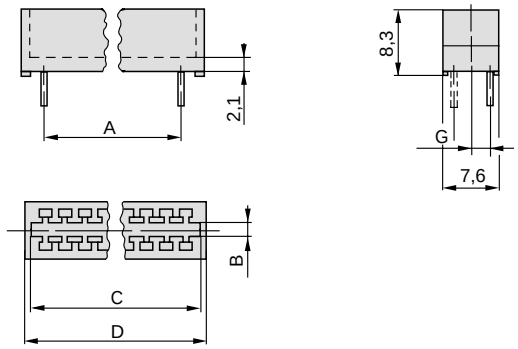
Connector		without flange		with flange	
Series	Code	Solder pins	Solder lugs	Solder pins	Solder lugs
PA	C,E,G,H	C2KO-P107	C2KO-N107	C2KF-P109	C2KF-N109
	F	C2KO-P108	C2KO-N108	C2KF-P110	C2KF-N110
	P	C2KO-P130	C2KO-N130	C2KF-P129	C2KF-N129
	A	C2RO-P8AD	C2RO-N8AD	C2RF-P8AD	C2RF-N8AD
PE	C,E,G,H	C2RO-P111	C2RO-N111	C2RF-P116	C2RF-N116
	F	C2RO-P113	C2RO-N113	C2RF-P118	C2RF-N118
	P	C2RO-P135	C2RO-N135	C2RF-P136	C2RF-N136

Series	with flange / without flange						
	Spacing A	B	C	D	E	F	G
PA	4 x 2,54	1,3	14,3	16	22	28	2,35
PE	10 x 2,0 8 x 2,54	1,3	22,3	24	30	36	2,35

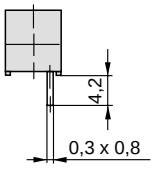
With flange



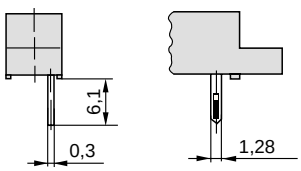
Without flange



With solder pins



With solder lugs



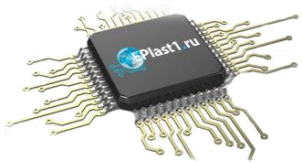
Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits,General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный)
Факс: 8 (812) 320-02-42
Электронная почта: org@eplast1.ru
Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.