

Components Contact blocks & holders

Operator mounted contacts

All CBK contact blocks, lamp modules and transformers can be used with CBK 22mm and CBG 30mm operators.

Contact blocks are color coded to easily identify the contact configuration:

- Green — Normally Open (N.O.) contacts
- Red — Normally Closed (N.C.) contacts

In addition, they snap-on to the operator for time saving installation



Single operator mounted contact block









Double operator mounted contact block

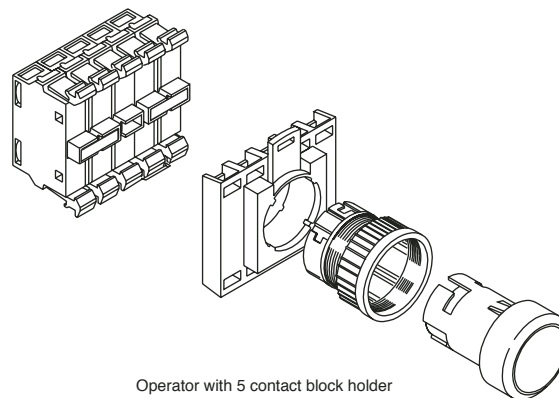
Contact blocks — operator mounted

Contact block holder

8 Single contact blocks

Item	Contact configuration	Catalog number	List price
 CBK-CB10	1 N.O. 1 N.C.	CBK-CB10 CBK-CB01	\$ 8.00
	Gold plated low energy contacts, 24VAC, 5mA		
 CBK-CB10G	1 N.O. 1 N.C.	CBK-CB10G CBK-CB01G	16.00
	Flat pin connections		
 CBK-CB10FP	1 N.O. 1 N.C.	CBK-CB10FP CBK-CB01FP	11.00
	Dummy block	CBK-XBB	2.00
 KCB-20 1	2 N.O.	KCB-20	16.00
	2 N.C.	KCB-02	
	1 N.O. - 1 N.C.	KCB-11	
 KCB-02 1			
 KCB-11 1			

Item	Catalog number	List price
 CBK-H5	CBK-H5	\$ 4.00
 CBK-AB	CBK-CH	2.00



Operator with 5 contact block holder





1 For gold plated low energy contacts, 24 VAC, 5mA, consult factory.

Components


Lamp modules & transformers

Pilot Devices
Type CBG 30mm








Lamp modules & transformers — operator mounted

Item	Voltage	Catalog number	List price
 CBK-LMF	Lamp module		
	Full voltage type	CBK-LMF	\$ 17.50
 CBK-LMR1	Resistor type		
	120V/60V 240V/120V 24V ^① 120V/24V ^②	CBK-LMR1 CBK-LMR2 CBK-LMR24 CBK-LMLED	21.50
 CBK-LMT1	Lamp module transformer		
	120V/6V 240V/6V 380V/6V 480V/6V 120V/24V 240V/24V 380V/24V 480V/24V	CBK-LMT1 CBK-LMT2 CBK-LMT3 CBK-LMT4 CBK-LMT124 CBK-LMT224 CBK-LMT324 CBK-LMT424	35.00
 CBK-LT1	Illuminated pushbutton transformer ^④		
	120V/6V 240V/6V 380V/6V 480V/6V 120V/24V 240V/24V 380V/24V 480V/24V	CBK-LT1 CBK-LT2 CBK-LT3 CBK-LT4 CBK-LT124 CBK-LT224 CBK-LT324 CBK-LT424	35.00

Lamp modules & transformers — base mounted

Item	Voltage	Catalog number	List price
 CBK-LMFB	Full voltage type	CBK-LMFB	\$ 17.50
	Resistor type 120V/60V 240V/120V	CBK-LMRB1 CBK-LMRB2	21.50

Lamp bulbs

Item	Voltage	Catalog number	List price
 CBK-LB6	Filament		
	6 VAC/DC 12 VAC/DC 24 VAC/DC 30 VAC/DC 48 VAC/DC 60 VAC/DC 130 VAC/DC	CBK-LB6 CBK-LB12 CBK-LB24 CBK-LB30 CBK-LB48 CBK-LB60 CBK-LB1	\$ 6
 CBK-LBN1	Neon ^③		
	220 VAC	CBK-LBN2	
 CBK-LBD1R	LED bulbs		
	Standard		
 CBK-LBD1R	Red		
	12 VDC	CBK-LBD12R	27
	24 VAC/DC	CBK-LBD8R	15
	48 VAC/VDC	CBK-LBD48R	21
	60VAC/VDC	CBK-LBD60R	21
	110-130 VAC/DC	CBK-LBD13R	21
	120 VAC	CBK-LBD1R	15
	230 VAC	CBK-LBD2R	21
	Green		
	12 VDC	CBK-LBD12G	27
24 VAC/DC	CBK-LBD8G	15	
48 VAC/VDC	CBK-LBD48G	21	
60VAC/VDC	CBK-LBD60G	21	
110-130 VAC/DC	CBK-LBD13G	21	
120 VAC	CBK-LBD1G	15	
230 VAC	CBK-LBD2G	21	
 CBK-LBD1R	Yellow		
	12 VDC	CBK-LBD12Y	27
	24 VAC/DC	CBK-LBD8Y	15
	48 VAC/VDC	CBK-LBD48Y	21
	60VAC/VDC	CBK-LBD60Y	21
	110-130 VAC/DC	CBK-LBD13Y	21
	120 VAC	CBK-LBD1Y	15
	230 VAC	CBK-LBD2Y	21
	Blue		
	12 VDC	CBK-LBD12L	32
24 VAC/DC	CBK-LBD8L	18	
48 VAC/VDC	CBK-LBD48L	21	
60VAC/VDC	CBK-LBD60L	21	
110-130 VAC/DC	CBK-LBD13L	28	
120 VAC	CBK-LBD1L	18	
230 VAC	CBK-LBD2L	24	
 CBK-LBD1R	White		
	12 VDC	CBK-LBD12W	32
	24 VAC/DC	CBK-LBD8W	18
	48 VAC/VDC	CBK-LBD48W	21
	60VAC/VDC	CBK-LBD60W	21
	110-130 VAC/DC	CBK-LBD13W	28
120 VAC	CBK-LBD1W	18	
230 VAC	CBK-LBD2W	24	
 CBK-LBD1R	Flashing		
	Red 24 VDC	CBK-LBDRF	20
	Green 24 VDC	CBK-LBDGF	
Yellow 24 VDC	CBK-LBDYF		

Diode block


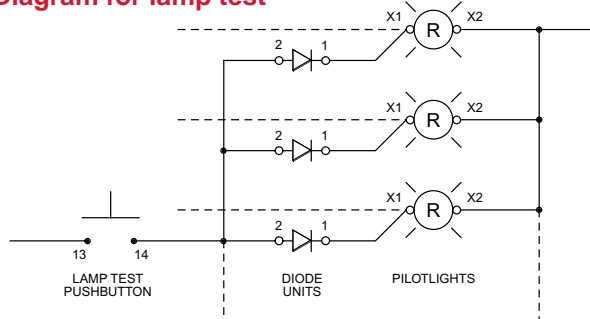
Item	Voltage	Catalog number	List price
 CBK-CBD	250V, 1A	CBK-CBD	\$ 14.00

Diagram for lamp test



WHEN SEVERAL PILOT LIGHTS ARE CONNECTED TO A COMMON LAMP TEST BUTTON, CONNECT A DIODE TO EACH PUSHBUTTON AS SHOWN. A SPECIAL DIODE BLOCK IS AVAILABLE FOR THIS PURPOSE.

- ① Designed for electronic circuits. The resistor limits the making current and prevents disturbances in the circuit. 24V filament bulb required.
- ② Designed for LED 24V bulbs.
- ③ Use with red, yellow and clear lenses only.
- ④ Mounts on to CBK-LMF.

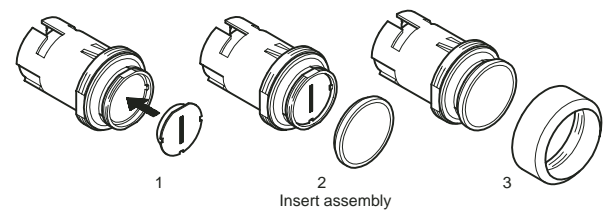
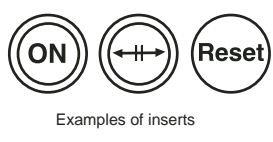
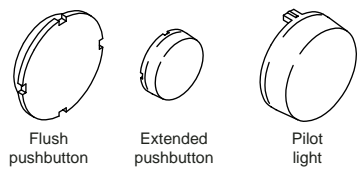
Components

Pushbutton and pilot light lens inserts^①

Pilot Devices
Type CBG 30mm

Legend	Cap color	Suffix ^② code	Flush button catalog number	Extended button catalog number	Pilot light catalog number	List price
	White	C82	CBK-KC82	—	—	\$.90
Start	White	C67	CBK-KC67	CBK-KC67E	CBK-KC67P	
START	Green Black	C5 C81	CBK-KC5 CBK-KC81	— —	— —	
On	White	C68	CBK-KC68	CBK-KC68E	CBK-KC68P	
ON	White Green Black	C69 C70 C1	CBK-KC69 CBK-KC70 CBK-KC1	— — —	CBK-KC69P — —	
Off	White	C71	CBK-KC71	CBK-KC71E	CBK-KC71P	
OFF	White Red Black	C72 C73 C2	— — CBK-KC2	CBK-KC72E CBK-KC73E CBK-KC2E	— — —	
Stop	White	C74	CBK-KC74	CBK-KC74E	CBK-KC74P	
STOP	Red	C4	CBK-KC4	CBK-KC4E	—	
Reset	White	C75	CBK-KC75	CBK-KC75E	CBK-KC75P	
Blank	White Green	C15 CG	CBK-KC15 CBK-KCG	CBK-KC15E CBK-KCEG	CBK-KC15P —	
UP	Green	C11	CBK-KC11	—	—	
DOWN	Green	C12	CBK-KC12	—	—	
OPEN	White Green	C16 C19	CBK-KC16 CBK-KC19	— —	— —	
CLOSE	White Green	C17 C20	CBK-KC17 CBK-KC20	— —	— —	
REV	Green	C6	CBK-KC6	—	—	
FWD	Green	C7	CBK-KC7	—	—	
SLOW	Green	C8	CBK-KC8	—	—	
FAST	Green	C9	CBK-KC9	—	—	
JOG	Green	C10	CBK-KC10	—	—	
RESET	Black	C3	CBK-KC3	—	—	
LATCH	White	C18	CBK-KC18	—	—	

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^① Illuminated pushbuttons and pilot lights must use white insert.
^② For extended pushbuttons, insert "E" at the end of the catalog number. For pilot lights, insert "P" at end of the catalog number.

Components Fixed nameplates

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CBG-NPE22



CBG-NPE30

Fixed nameplates — Aluminum

Legend	Catalog number	List price
1 Position		
CLOSE	CBG-NPE1	\$ 1.80
DOWN	CBG-NPE2	
EMERGENCY STOP	CBG-NPE3	
FAST	CBG-NPE4	
FORWARD	CBG-NPE5	
INCHING	CBG-NPE6	
IN	CBG-NPE7	
LEFT	CBG-NPE8	
LOWER	CBG-NPE9	
OFF	CBG-NPE10	
ON	CBG-NPE11	
OPEN	CBG-NPE12	
RAISE	CBG-NPE13	
RESET	CBG-NPE14	
REVERSE	CBG-NPE15	
RUN	CBG-NPE16	
RIGHT	CBG-NPE17	
SLOW	CBG-NPE18	
START	CBG-NPE19	
STOP	CBG-NPE20	
UP	CBG-NPE21	
2 Position (BC position)		
HAND/AUTO	CBG-NPE22	1.80
JOG/RUN	CBG-NPE23	
OFF/ON	CBG-NPE24	
STOP/START	CBG-NPE25	
FWD/REV	CBG-NPE32	
2 Position (AC position)		
HAND/AUTO	CBG-NPE22AC	1.80
JOG/RUN	CBG-NPE23AC	
OFF/ON	CBG-NPE24AC	
STOP/START	CBG-NPE25AC	
FWD/REV	CBG-NPE32AC	
3 Position		
HAND/O/AUTO	CBG-NPE26	1.80
SLOW/OFF/FAST	CBG-NPE27	
LOW/OFF/HIGH	CBG-NPE31	
Blank		
BLANK — Aluminum (1 – 2 line)	CBG-NPE28	1.80
BLANK — Aluminum (2 – 3 line)	CBG-NPE29	
Custom engraving		
NOTE: For custom engraving instructions, please see "Ordering Instructions," page 2.25.		5.20
Other		
EMERGENCY STOP (70mm)Ⓞ	CBG-NPE30	6.00

Ⓞ Nameplate is 70mm in diameter.

Components

Custom engraved nameplates

Pilot Devices
Type CBG 30mm



General specifications

- All characters are 1/8" high, upper & lower case. Please specify if all capital letters are desired.
- All special engravings involve engraving the desired lettering into the metal surface and then treating the engraved surfaces with black ink.

Ordering custom engraved nameplates

- Select the desired legend plate.
- Indicate the catalog number.
- Write the desired words to be engraved on each line.
EXAMPLE: CBG-NPE28-02
Line 1: Pump No. 1
Line 2: Off

Fixed nameplates — aluminum ①

Type	Maximum letters per line	Catalog number	List price
<p>Pushbuttons or pilot lights</p>	16	CBG-NPE28-01	\$ 6.50
	16	CBG-NPE29-01	
<p>2 Position selector switches</p>	18	CBG-NPE28-02	
	16 (line 1) 8 (line 2) 8 (line 3)	CBG-NPE29-02	
<p>3 Position selector switches</p>	8	CBG-NPE28-03	
	16 (line 1) 8 (line 2) 8 (line 3) 8 (line 3A) 8 (line 3B)	CBG-NPE29-03	
<p>2 Position toggle switches</p>	5	CBG-NPE28-04	
	6	CBG-NPE29-04	
<p>3 Position toggle switches</p>	5 (line 1) 5 (line 1) 5 (line 1)	CBG-NPE28-05	
	5 (line 1) 5 (line 1) 5 (line 1)	CBG-NPE29-05	

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① For drilling plans, see page 8.99.

UL & IEC enclosure standards comparison

IEC definition	Protection to IEC 144/BS5420	Protection to UL 50 enclosure type	UL 50 definition
Protected against solid objects greater than 12mm	IP 20	1 (ventilated)	General purpose indoor
Protected against solid objects greater than 2.5mm	IP 30	1	General purpose indoor
Protected against solid objects greater than 12mm and dripping water	IP 21	2 (ventilated)	Falling water and dirt, indoor
Protected against solid objects greater than 2.5mm and dripping water	IP 24	3R (ventilated)	Rain proof, sleet (ice) resistant, outdoor use
Protected against solid objects greater than 2.5mm and dripping water	IP 34	3R	Rain proof, sleet (ice) resistant, outdoor use
Protected against dust & splashing liquid	IP 54	—	—
Dusttight, protected against waterjets	IP 65	12	Indoor use, dusttight and driptight
Dusttight, protected against heavy seas	IP 66	3S	Dusttight, driptight
Dusttight, protected against heavy seas	IP 66	4	Dusttight, watertight
—	—	4X	Dusttight, watertight, corrosion resistant
Dusttight, protected against heavy submersion	IP 68	6	Submersible, watertight, dust-tight, sleet (ice), resistant indoor or outdoor
—	—	13	Oiltight and dusttight, indoor
Protected against dust & splashing liquid	IP 54	5	Protection against settling airborne dust, falling dirt and dripping noncorrosive liquids, indoor

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