

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




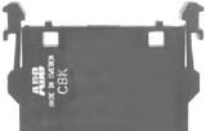





Double operator mounted contact block

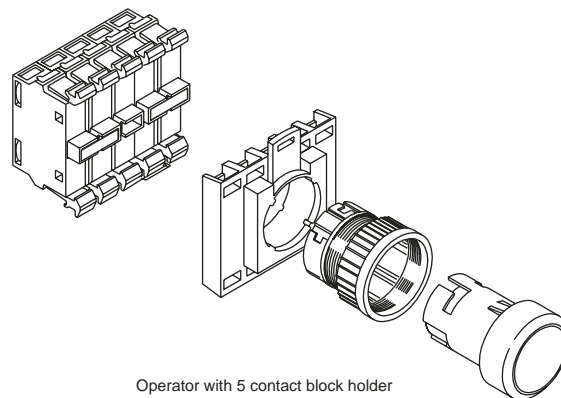
Contact blocks — operator mounted

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		CBK-XBB	2.00
Double contact blocks			
 KCB-20 ①	2 N.O.	KCB-20	16.00
 KCB-02 ①	2 N.C.	KCB-02	
 KCB-11 ①	1 N.O. - 1 N.C.	KCB-11	

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
	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	CBK-LMRB1 CBK-LMRB2	21.50
	120V/60V 240V/120V		

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

Diode block


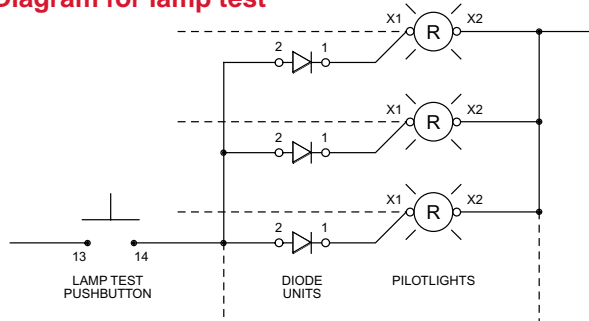
Item	Voltage	Catalog number	List price
 CBK-CBD	250V, 1A	CBK-CBD	\$ 14.00

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.

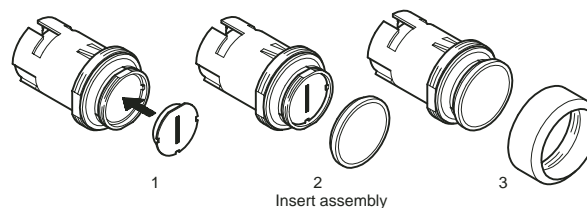
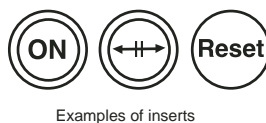
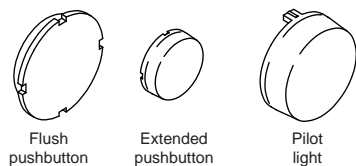
Components

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)⓪	CBG-NPE30	6.00

⓪ 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 [Ⓢ]

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