

Pilot Devices, Compact Range

The competitive choice

The compact range is a new competitive choice for OEM customers and Panel Builders with high requirements of cost efficient, easy to use and reliable products.

Features

- Reliable performance
- Less stock-keeping
- “All-in-one function” One Order Code = one complete function
- Robust design
- Easy mounting

Part of the ABB Family

The compact range can easily be combined with our modular Pilot Devices as they have the same front design.

Worldwide availability

ABB is represented in over 130 countries. Our pilot devices meet all major international and national standards.

Technical advantages

- High degree of protection
- One or two built-in electrically separated contacts (1NO, 1NC, 2NO, 2NC or 1NC + 1NO)
- Contacts with wiping action
- Low built-in depth



Same front design for both the modular and the compact range. Robust actuators in clear colors with large text and push area.



Samples of accessories



Pushbuttons, non-illuminated



Contacts included		Pushbutton		Pushbutton		Pushbutton		Pushbutton	
NO	NC	Momentary Flush button		Maintained Flush button		Momentary Extended button		Maintained Extended button	
Y	N	Catalog No.	List Price	Catalog No.	List Price	Catalog No.	List Price	Catalog No.	List Price
1	–	CP110■-10	\$ 15.20	CP210■-10	Price & availability to be announced	CP310■-10	\$ 15.20	CP410■-10	Price & availability to be announced
2	-	CP110■-20	19.90	CP210■-20		CP310■-20	19.90	CP410■-20	
-	1	CP110■-01	15.20	CP210■-01		CP310■-01	15.20	CP410■-01	
-	2	CP110■-02	19.90	CP210■-02		CP310■-02	19.90	CP410■-02	
1	1	CP110■-11	19.90	CP210■-11		CP310■-11	19.90	CP410■-11	

NOTE: For custom inserts consult factory.

Color	Code letter
Red	R
Green	G
Yellow	Y
Blue	L
White	W
Black	B
Grey	U

Ordering example

Requested: A compact pushbutton, momentary, with red extended button and one NO contact.

Order: 1 piece of CP310R-10



Pushbuttons, non-illuminated



Contacts included		Pushbutton		Pushbutton	
NO	NC	Momentary Flush button, white		Maintained Extended button, black	
I	L	with black I		with black II	
		Catalog No.	List Price	Catalog No.	List Price
1	–	CP1110W-10	\$ 16.70	CP1210W-10	\$ 16.70
–	1	–	–	CP3310B-01	Price & availability to be announced

Discount Schedule CA

Selector switches, non-illuminated



Two position

Contacts included
NO NC

Maintained



Maintained



Momentary



		Catalog No.	List Price	Catalog No.	List Price	Catalog No.	List Price
1	-	C2SS110-10	\$ 19.60	C2SS210-10	\$ 19.60	C2SS310-10	\$ 22.70
2	-	C2SS110-20	27.20	C2SS210-20	27.20	C2SS310-20	27.20
-	1	C2SS110-01	22.70	C2SS210-01	22.70	C2SS310-01	22.70
-	2	C2SS110-02	27.20	C2SS210-02	27.20	C2SS310-02	27.20
1	1	C2SS110-11	27.20	C2SS210-11	27.20	C2SS310-11	27.20

Color		Code letter
Red		R
Black		B
Grey		U

Three position

Contacts included
NO NC

Maintained



Momentary



Momentary



Momentary



		Catalog No.	List Price	Catalog No.	List Price	Catalog No.	List Price	Catalog No.	List Price
2	-	C3SS110-20	\$ 27.20	C3SS210-20	\$ 27.20	C3SS310-20	\$ 27.20	C3SS710-20	\$ 27.20
-	2	C3SS110-02	27.20	C3SS210-02	27.20	C3SS310-02	27.20	C3SS710-02	27.20
1	1	C3SS110-11	27.20	C3SS210-11	27.20	C3SS310-11	27.20	C3SS710-11	27.20

Ordering example

Requested: A red compact selector switch with three positions, Momentary, spring return from A to B and maintained position in C. With 2 NC contacts.

Order: 1 piece of C3SS710R-02



Pilot Lights



Pilot light BA 9s base

Color		Catalog No.	List Price
Red		CL-100R	\$ 14.00
Green		CL-100G	14.00
Yellow		CL-100Y	14.00
Blue		CL-100L	14.00
White		CL-100W	14.00
Clear		CL-100C	14.00



Accessories

Description

Catalog No.

List Price

Filament bulbs BA 9s base

Type of current: AC/DC.

Rated voltage, V	Rated current, mA	Rated output, W	Service life, h
6	200	1.2	10 000
12	100	1.2	10 000
24	50	1.2	10 000
30	40	1.2	10 000
48	42	2	6 000
60	20	1.2	5 000
110	18	2	7 500
130	15	2	7 500

CBK-LB6	\$ 6.00
CBK-LB12	6.00
CBK-LB24	6.00
CBK-LB30	6.00
CBK-LB48	6.00
CBK-LB60	6.00
CBK-LB110	6.00
CBK-LB1	6.00

LEDs

With one diode chip mounted on a BA 9s base.

Choose the same color for the LED and the lamp cap or else use a clear lamp cap.

For white light use white LED with clear lamp cap.

At DC the lamp base have to be connected to cathode (-) and the bottom contact to anode (+).

Rated voltage, V	Rated current, mA	Color	Wave-length, nm	Luminance, mcd
Type of current: DC Service life >50 000 hours				
12	15	Red	630	250
12	15	Green	525	800
12	15	Yellow	592	250
12	15	Blue	470	400
12	15	White	x=0.31 y=3.2	500

Catalog No.	List Price
CBK-LBD12R	\$ 27.00
CBK-LBD12G	27.00
CBK-LBD12Y	27.00
CBK-LBD12L	32.00
CBK-LBD12W	32.00

Type of current: **(AC)/DC¹⁾ Service life >50 000 hours**

24	15	Red	630	250
24	15	Green	525	800
24	15	Yellow	592	250
24	15	Blue	470	400
24	15	White	x=0.31 y=3.2	500

CBK-LBD8R	15.00
CBK-LBD8G	15.00
CBK-LBD8Y	15.00
CBK-LBD8L	18.00
CBK-LBD8W	18.00

Type of current: **AC¹⁾ Service life 25 000 hours**

110-130	4-6	Red	630	25-35
110-130	4-6	Green	525	300-350
110-130	4-6	Yellow	592	60-90
110-130	4-6	Blue	470	130-150
110-130	4-6	White	x=0.31 y=3.2	160-200

CBK-LBD1R	15.00
CBK-LBD1G	15.00
CBK-LBD1Y	15.00
CBK-LBD1L	18.00
CBK-LBD1W	18.00

Type of current: **AC/DC¹⁾ Service life 25 000 hours**

110-130	4-6	Red	630	25-35
110-130	4-6	Green	525	300-350
110-130	4-6	Yellow	592	60-90
110-130	4-6	Blue	470	130-150
110-130	4-6	White	x=0.31 y=3.2	160-200

CBK-LBD13R	21.00
CBK-LBD13G	21.00
CBK-LBD13Y	21.00
CBK-LBD13L	28.00
CBK-LBD13W	28.00

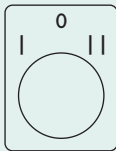
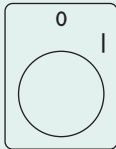
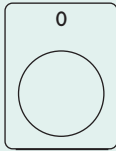
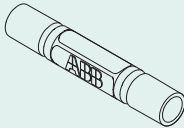
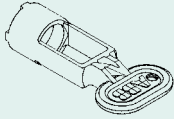
Type of current: **AC¹⁾ Service life 25 000 hours**

230	4	Red	630	25
230	4	Green	525	300
230	4	Yellow	592	60
230	4	Blue	470	130
230	4	White	x=0.31 y=3.2	160

CBK-LBD2R	21.00
CBK-LBD2G	21.00
CBK-LBD2Y	21.00
CBK-LBD2L	24.00
CBK-LBD2W	24.00

¹⁾ At AC the luminance is decreased with 30 % and there is also a slight flickering.

Discount Schedule CA



29.6 x 39 mm
Text height 3 mm

Accessories

Description

Catalog No.

List Price

Protective membrane

Of transparent, heat and cold resistant rubber.

Does not harden at low temperature. Gives IP 67 degrees of protection. When membrane is used, remove the gasket.

For operator with:

Flush button

CBK-KXB

\$ 8.00

Extended button

CBD-KXBE

8.00

Mounting tool

Used for tightening the nut of the attachment device.

CBK-KXHT

10.00

30 mm adaptors

For use when fitting the 22 mm pilot devices in 30 mm mounting holes. (1.5 – 4 mm panels)

For use with 22 mm Compact Pilot Light

Black plastic

CBK-PK3A

8.00

Metal

CBK-PM3A

10.00

Lamp changing tool

Designed for two different lamp diameters. The larger diameter fits filament bulbs and LEDs and the smaller diameter fits neon bulbs.

KA1-8072

10.00

Legend plates

Engraved fixed plates with symbol/text

Symbol/text

Legend plate material

For pushbutton

O	Silver-grey aluminium
Off	Silver-grey aluminium
On	Silver-grey aluminium
Start	Silver-grey aluminium
Stop	Silver-grey aluminium

CBK-NPE40	1.50
CBK-NPE10	1.50
CBK-NPE11	1.50
CBK-NPE19	1.50
CBK-NPE20	1.50

Symbol/text

Centre Right

Legend plate material

For two-position selector switch

O	I	Silver-grey aluminium
Hand	Auto	Silver-grey aluminium
Off	On	Silver-grey aluminium
Stop	Start	Silver-grey aluminium

CBK-NPE41	1.50
CBK-NPE22	1.50
CBK-NPE24	1.50
CBK-NPE25	1.50

Symbol/text

Left Centre Right

Legend plate material

For three-position selector switch

I	O	II	Silver-grey aluminium
Hand	O	Auto	Silver-grey aluminium
Slow	Off	Fast	Silver-grey aluminium

CBK-NPE42	1.50
CBK-NPE26	1.50
CBK-NPE27	1.50

NOTE: For custom legend plates consult factory.

Discount Schedule CA

Technical data

Standards

IEC 73, 529, 947-5-1, 947-5-5
EN 50 013, 60 947-5-1
UL 508
CSA C22.2 No. 14

Degree of protection

Operators

Compact pushbutton
Compact pilot lights
Compact selector switch

Electrical functions

Terminals

Mechanical life

Pushbuttons
Selector switches

Temperature

Ambient temperature during operation
Storage temperature

Terminals

Plus-minus Pozidrive Size 2
Connectable area

Contacts

Ratings as per UL/CSA, NEMA C300

Rated insulation voltage 250 VAC
Rated thermal current 2.5 A

Rated operational current at 120 VAC
240 VAC
Max. VA

Ratings as per UL/CSA, NEMA R300

Rated insulation voltage 250 VDC
Rated thermal current 1.0 A

Rated operational current at 125 VDC
240 VDC
Max. make or break VA at 300V or less

Short circuit protection

Max. fuse at 1 kA

Bulbs max rating

ICC UL/CSA

IP 66 1, 12, 3R, 4, 4X
IP 66 1, 12, 3R, 4, 4X
IP 66 1, 12, 3R, 4, 4X

IP 20

0.5 million operations
0.5 million operations

-25 to +70 °C
-30 to +85 °C

min. 1 x 0.5 mm²
max. 2 x 1.5 mm²/
2 x AWG14

Make Break
15 A 1.5 A
7.5 A 0.75 A
1800 VA 180 VA

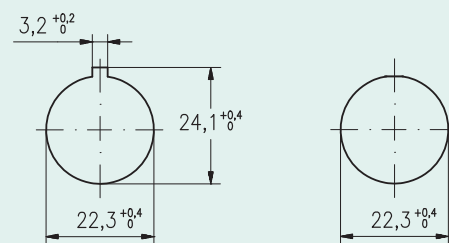
Make Break
0.22 A 0.22 A
0.11 A 0.11 A
28 VA 28V A

16 A ordinary
10 A delayed

3 W, 240 V

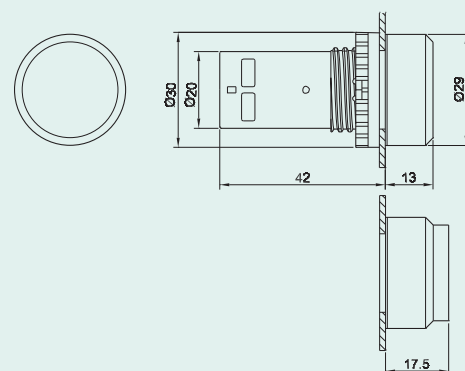
Drilling plan

for pushbuttons, switches and
pilot lights

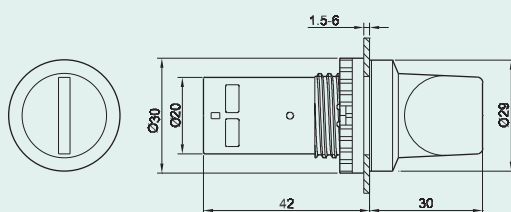


Dimensions

Compact Pushbutton



Compact Selector Switch



Compact Pilot Light

