

C-Series Remote Operated Module

The Carling Technologies Remote Operated Circuit Breaker (ROCB) combines the convenience of remote ON, OFF and Reset capabilities, with the safety and accuracy of a standard magnetic current sensing device, thus allowing operation of the breaker from various locations in a system, facility or site (while not sacrificing the ability to manually operate the breaker if required). With the ROCB, service, diagnostics, load shedding and power distribution control functions can now be performed in areas that were previously unattended, inaccessible or unsafe.

The ROCB module allows remote operation of the C-Series panel mount breaker, or the D-Series DIN rail mount breaker (up to 3 poles) through hard wiring with a single pole, double throw switch connected to a standard power source, or more sophisticated relay and modem networks.

The ROCB module can be mounted to either side of the host breaker, while occupying only the width of a standard C-Series pole. Several interface methods are available. Remote physical actuation of the host circuit breaker is achieved by connecting the ROCB module's handle with the breakers. Being based on the C-Series breaker, the ROCB allows easy adaptation into existing panel designs. In addition, its compact size allows efficient use of space for new design applications. With the ROCB, Carling has designed a versatile, compact and reliable solution -- in a hydraulic/magnetic circuit breaker or switch only device that can be operated both manually and remotely.

Design Features include:

- ON-OFF and trip indication
- Load shedding
- Energy management
- Compact size
- Automatic reset capable
- Choice of interface styles
- Panel or DIN rail mounting
- Manual Operation Override
- Fits into industry standard cut-out

ROCB Motor Specifications:

- Voltage input: 12 VDC to 80 VDC
- Start current: < 1 amp
- Switching time: < 2 seconds



To order a remote operated circuit breaker, add / plus the remote module part number to the end of the C-Series circuit breaker catalog number. ex. CA1BO24620121C/RB1110BU1C

Match color & mounting inserts of breaker.

/	RB	1	1	10	B	U	1	C
	1 Series	2 Mounting Position	3 Interface	4 Lead Length	5 Voltage Rating	6 Actuator Color	7 Mounting Insert	8 Agency Approval

1 SERIES

RB

2 MOUNTING POSITION

As viewed from back of breaker, line side up, pole 1 left.

- 0 n/a - ordered separate from breaker
- 1 Left Side
- 2 Right Side

3 INTERFACE

- 1 Flying Leads
- 2 Integral Connector
- 3 Flying Leads w/ 4 pin dual row connector (female)
- 4 Flying Leads w/ 4 pin dual row connector (male)

4 LEAD LENGTH

00	No Lead	11	11"	22	22"
01	1"	12	12"	23	23"
02	2"	13	13"	24	24"
03	3"	14	14"	25	25"
04	4"	15	15"	26	26"
05	5"	16	16"	27	27"
06	6"	17	17"	28	28"
07	7"	18	18"	29	29"
08	8"	19	19"	30	30"
09	9"	20	20"		
10	10"	21	21"		

5 VOLTAGE RATING

- A 12 VDC
- B 20-40 VDC
- C 41-80 VDC

6 ACTUATOR COLOR

- T White
- U Black
- V Red
- W Yellow

7 MOUNTING INSERT

- 1 6-32 x 0.195"
- 2 ISO M3 x 5mm

8 AGENCY APPROVAL

- C UL Recognized & CSA Accepted
- E TUV Certified, UL Recognized & CSA Accepted
- G UL 489 Listed & CSA Certified
- I UL 1500 Ignition Protected, UL Recognized & CSA Accepted
- J UL 489 Listed, CSA Certified & TUV Certified

Notes:

Available with integral connector only.

Integral and 4-pin dual row connectors not available with agency approval G: UL 489.

Panel Hole Plug



Threaded insert A & B-Series hole plugs are available in gloss finish.
Snap-In A & B-Series hole plugs are available in matte finish.

8 **M** **1** – **C** – **1** **2** **1**

1 Accessory Code 2 Series 3 Poles 4 Accessory Type 5 Actuator Type 6 Color 7 Finish

1 ACCESSORY CODE

8

2 SERIES

A A & B-Series **C** C & D-Series **M** M-Series

3 POLES

1 1 pole
A, B, C & D-Series Front Panel Snap-In Only
2 Multi-pole inner
3 Multi-pole outer

4 ACCESSORY TYPE

C Panel Hole Plug

5 ACTUATOR TYPE & MOUNTING STYLE

Actuator Type

1 M-Series Rocker
2 A & B-Series Rocker
3 A & B-Series Rocker
6 C & D-Series Handle
7 C & D-Series Handle
8 A, B, C & D-Series Handle

Mounting Style

Front Panel Snap-In
6-32 Threaded Insert
ISO M3 Threaded Insert
6-32 Threaded Insert
ISO M3 Threaded Insert
Front Panel Snap-In

6 COLOR

2 Black

1 White (M-Series only)

7 Gray (M-Series only)

7 FINISH

1 Matte

2 Gloss (A & B-Series only)

A & B-Series PCB Socket



The PCB socket is available with the A-Series Handle, DC up to 30 amps; A-Series Rocker, AC/DC up to 30 amps, and B-Series handle, AC/DC up to 30 amps.

8 **A** **1** – **1** **1** **B**

1 Accessory Code 2 Series 3 Poles 4 Interface 5 Terminal 6 Color

1 ACCESSORY CODE

8

2 SERIES

A A & B-Series

3 POLES

1 1 pole

4 INTERFACE WITH AUXILIARY SWITCH

1 Yes

2 No

5 AUXILIARY SWITCH TERMINAL TYPE

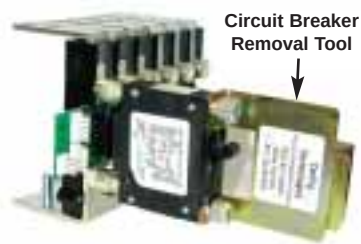
1 TAB, 0.110 Inches (Symmetrical terminal spacings)

3 none

6 COLOR

B Black

C-Series with Push-In Stud Terminals Removal Tool



8C1-X0-08-639

1 Part Number

1 PART NUMBER**8C1-X0-08-639**

Removal Tool for 6-32 inserts

8C1-X0-09-593

Removal Tool for M3 inserts

C & E-Series Power Selector



The number of lockout sliding handles provided is one less than the number of sections specified, allowing one section to be live at a time.

8 E 6 - B - C 3 1
1 Accessory Code 2 Series 3 Poles 4 Accessory Type 5 Sections 6 Color 7 Style

1 ACCESSORY CODE**8****2 SERIES****C** C & D-Series**E** E-Series**3 POLES****4** 4 poles**6** 6 poles**9** 9 poles**4 ACCESSORY TYPE****B** Power Lockout Kit**5 SECTIONS & POLES PER SECTION****Number of Sections****Poles Per Section****B**

Two

Two

C

Two

Three

F

Three

Two

G

Three

Three

6 COLOR**2** Black**3** Red**7 STYLE****1** Carling Logo**2** Textured Surface**3** Glossy Surface