

The GE push button offering includes a complete line of control units and stations in both full size (30 mm) push buttons and in smaller size (22 mm) devices which are designed to be used in numerous types of industrial applications.

The CR104P full-size, heavy-duty oiltight and watertight line is complete with a variety of accessories and enclosures. These push buttons are especially adapted to heavy duty service in almost any application including those where water and oil coolant is present. All units are suitable for use in NEMA Type 1, 3, 3R, 4, 4X, 12, and 13 applications when mounted in enclosures rated for those applications. Standard contact blocks are supplied with IP 10 back-of-hand protection to comply with UL 508 Section 39A requirements for door mounted devices.

GE's C-2000 22mm Global Push Buttons are designed to be applied in just about any application worldwide. C-2000 push buttons conform to all major world standards and are UL listed and CSA Certified. All devices except the double push button are rated for NEMA 1, 3, 3R, 3S, 4, 4X, 12, 13, and IP66 when mounted in a suitable enclosure. C-2000 push buttons are manufactured in an ISO 9000 facility, assuring you that these products comply with quality standards that are recognized worldwide. Pre-engraved nameplates are available in French, Spanish, Italian, German, and English. The C-2000 push button line is globally available under the same product numbers, packaging, and markings anywhere in the world.



Reference Publications

See Publication Index, Section 16.



For information on 22mm Pilot and Signaling Devices, please see Section F of the Controls and Power Electronics Catalog, DEC1005-US.

Heavy-Duty 30.5 mm Watertight/Oiltight Push Buttons (CR104P)

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Heavy-Duty 22.5 mm Watertight/Oiltight Push Buttons (C-2000)

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Pilot and Signaling Devices

Heavy-Duty 30.5 mm Watertight/Oiltight Push Buttons

CR104P

Push Buttons

600 Volts Maximum AC/DC

10 Amperes Continuous

Description

Standard and illuminated push buttons and selector switches are available as both key and conventional operators. The CR104P line also includes push-to-test and standard pilot lights, mushroom-head push buttons, joysticks, and push-pull and push-push operators.

Chrome-plated octagonal mounting rings project an attractive, high-quality appearance. Positive feel selector switches offer a quality touch in all illuminated and non-illuminated, maintained and spring return units.

Application

Especially adapted to machine-tool service or any application where oil or coolant is present. The convenient one-hole mounting makes this line suitable for general-purpose use in equipment of all kinds where panel mounting is possible. This line is ideal for applications where oil-tightness, water-tightness and long life are essential.

All units are suitable for use in NEMA Type 1, 3, 3R, 4, 4X, 12, and 13 applications when mounted in enclosures rated for those same applications. The exception is CR104PTP units, which are suitable for Type 1, 12, and 13 applications only. Although not needed on all Type 4X applications, protective caps provide improved resistance to some corrosive materials. They are not required by UL.

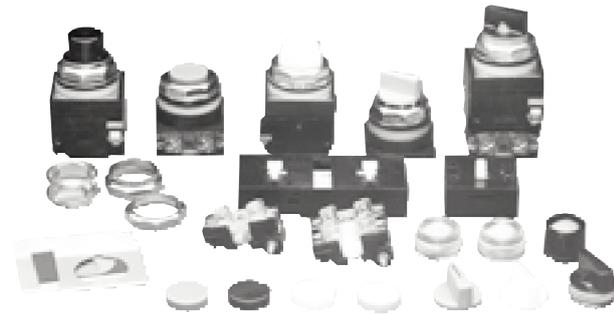
Features

- Ease of Assembly: One-screw contact block mounting. Octagonal ring provides ease in front panel mounting and enclosure applications.
- Greater Torque: Due to the eight-sided ring design, greater torque can be developed during assembly and installation to provide oil-tightness.
- Stocking Inventories Reduced: Forms may be furnished as complete units or as components, allowing building-block construction from a minimum of stock. The latter may provide faster service.
- Color Coded: Colored knobs and caps are available in kit forms for easy field conversion.

Product Number Selection Instructions

Selection of CR104P push buttons from the following pages is done in one of two ways: (1) one-step selection and pricing, in which items are selected from a single table and (2) step-by-step selection and pricing, in which you follow a sequence of steps to build the product number and list price for the product(s) you need. In either case, follow the instructions provided and order by complete product number.

Example: CR104PBG91B1 at **\$34.20, GO-10P1**. Product numbers and prices do not include nameplates, which must be ordered separately from pages 9-40 and 9-41.



30.5 mm Heavy-Duty Push Buttons



Pilot and Signaling Devices

Heavy-Duty 30.5 mm Watertight/Oiltight Push Buttons

CR104P

Push Buttons

Lamp Selection

600 Volts Maximum AC/DC

10 Amperes Continuous

Lamp Selection

Incandescent, neon, and light emitting diode (LED) lamps are available for use in indicating lights, illuminated push buttons, and illuminated selector switches. Incandescent lamps have traditionally been the most frequently used, but it is wise to review the characteristics of the different types of lamps and select the one that is most appropriate for the application. Although the incandescent lamp offers the lowest initial cost, the LED is usually the most economical over the long term, due to its long life, resistance to shock and vibration, and lower power consumption.

Benefits of LEDs include:

Resistance to Shock and Vibration—Since LEDs are solid state, they are completely impervious to the problems associated with shock and vibration that can significantly reduce the life of incandescent lamps by mechanically breaking the filament. The high inrush currents at startup associated with incandescents also act to significantly reduce the life of lamps used in frequent on-off applications.

Longer Life—The LEDs used with CR104P push buttons have a service life of 100,000 hours (11 years) compared to 20,000 hours (28 months) for the neon lamps, and 2,000 hours (3 months) for the standard incandescent lamps.

Reduced Power Consumption—The LEDs used for the CR104P push buttons consume between 10% and 52% less power than the equivalent incandescent lamp. The table below shows the power consumption of each type.

Lower Operating Temperature— Because of the lower power consumption and greater efficiency of LEDs, they operate much cooler than incandescent lamps. Thus, in applications where heat in the enclosure could be a problem, LED lamps are a better choice. Incandescent bulbs are recommended for light-duty applications and panels not subject to shock and vibration. Neon lamps offer a middle ground, at a cost and performance between the LED and the incandescent, but can have problems associated with flicker induced by noise and frequency. LED lamps offer the best overall performance for the long term.

Lamp Comparison

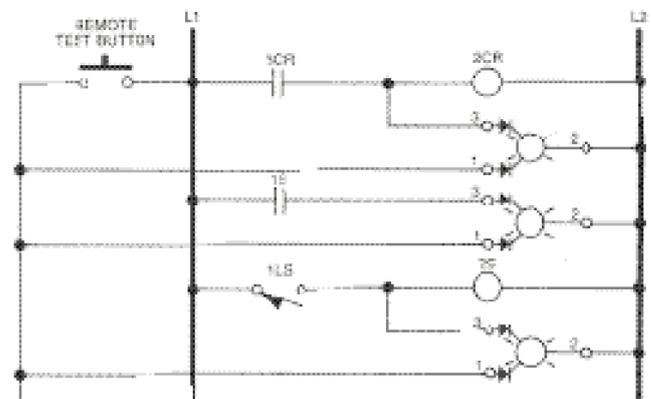
Bulb Type	Lifespan (Hours)	Shock & Vibration Immunity	Operating Temperature	Power Consumption	Brightness
LED	100,000	High	Medium	Medium	Medium
Incandescent	2,000	Low	High	High	High
Neon	20,000	Medium	Low	Low	Low

Potentiometers

Resistance	100 ohms \pm 10% (all resistance by product number)
End Resistance	4 ohms maximum
Dielectric Strength	1000 Vac
2 Watts Maximum at 70°C	

Dual Input Illuminated Push Buttons (also called Remote Test Lights)

Dual input illuminated push buttons and indicating lights allow a number of lights to be tested from a single test button without operating the control circuit. A dual input illuminated push button without contacts becomes a remote test indicating light.



Typical wiring diagram for remote test of lights using dual input "Remote Test" Lights.

Power Consumption

Type	Volts AC (0°C)	Incandescent CR104P	Watts	LED CR104P	Watts	Neon CR104P	Watts
Full Voltage ¹ Transformer	8 (20,000 hours)	XA16	.88	XA26 ²	0.54	--	--
	12 (15,000 hours)	XA12	1.12	XA32 ²	0.72	--	--
	24 (2,000 hours)	XA14	1.12	XA34 ²	0.72	--	--
	120 (4000 hours or less)	XA52	3	--	--	--	--
	120 (transistor bypassed)	XA54	2.8	XA30 ²	1.2	XA30	0.073
Resistor	240	XA52	3	--	--	--	--
	120	XA15	3	--	--	--	--
Cluster Lights	12	XA32	.96	--	--	--	--
	24	XA24	1.12	--	--	--	--
	8	XA26	1.2	--	--	--	--



Pilot and Signaling Devices

Heavy-Duty 30.5 mm Watertight/Oiltight Push Buttons

Section 9

CR104P

Standard

Non-Illuminated

600 Volts Maximum AC/DC

10 Amperes Continuous

Common Forms

One-step selection and pricing of common assembled forms.

Units are supplied factory-assembled when ordered with contact blocks.

Suitable for use in NEMA Type 1, 3, 3R, 4, 4X, 12, and 13 applications when mounted in enclosures rated for those same applications. For some NEMA Type 4X applications, protective caps will improve corrosion resistance.

Flush Button - Momentary Operator

Contact Configuration	Color	Product Number	List Price GO-10P1
None (Operator Only)	Black	CR104PBG00B1	\$16.20
None (Operator Only)	Red	CR104PBG00R1	\$16.20
None (Operator Only)	Green	CR104PBG00G1	\$16.20
None (Operator Only)	1 Each: Red, Green, Yellow, Black	CR104PBG00U1 ¹	\$16.20
None (Operator Only)	1 Each: Brown, Blue, Orange, White	CR104PBG00V1 ¹	\$16.20
None (Operator Only)	Other	CR104PBG00*1 ²	\$15.90
1NO-1NC	Black	CR104PBG91B1	\$34.20
1NO-1NC	Red	CR104PBG91R1	\$34.20
1NO-1NC	Green	CR104PBG91G1	\$34.20
1NO-1NC	1 Each: Red, Green, Yellow, Black	CR104PBG91U1 ¹	\$34.20
1NO-1NC	1 Each: Brown, Blue, Orange, White	CR104PBG91V1 ¹	\$34.20
1NO-1NC	Other	CR104PBG91*1 ²	\$33.90
2NO-2NC	Black	CR104PBG92B1	\$52.20
2NO-2NC	Red	CR104PBG92R1	\$52.20
2NO-2NC	Green	CR104PBG92G1	\$52.20
2NO-2NC	1 Each: Red, Green, Yellow, Black	CR104PBG92U1 ¹	\$52.20
2NO-2NC	1 Each: Brown, Blue, Orange, White	CR104PBG92V1 ¹	\$52.20
2NO-2NC	Other	CR104PBG92*1 ²	\$51.90
1NO	Black	CR104PBG10B1	\$25.20
1NO	Red	CR104PBG10R1	\$25.20
1NO	Green	CR104PBG10G1	\$25.20
1NO	1 Each: Red, Green, Yellow, Black	CR104PBG10U1 ¹	\$25.20
1NO	1 Each: Brown, Blue, Orange, White	CR104PBG10V1 ¹	\$25.20
1NO	Other	CR104PBG10*1 ²	\$24.90
1NC	Black	CR104PBG01B1	\$25.20
1NC	Red	CR104PBG01R1	\$25.20
1NC	Green	CR104PBG01G1	\$25.20
1NC	1 Each: Red, Green, Yellow, Black	CR104PBG01U1 ¹	\$25.20
1NC	1 Each: Brown, Blue, Orange, White	CR104PBG01V1 ¹	\$25.20
1NC	Other	CR104PBG01*1 ²	\$24.90

¹Supplied with 4 caps: Unassembled.

²To order assembled units with a different color, substitute the letter below in place of the * in product number and add required adder to the list price.

Cap Colors Available*

Color	Insert in place of asterisk (*)	List Price Adder, GO-10P1 Push Buttons
Yellow	E	\$0.30
Blue	L	\$0.30
Orange	M	\$0.30
Brown	N	\$0.30
White	W	\$0.30
No Cap	A	\$0.00



Flush Button



Nameplates: See pages 9-40 to 9-41
 Technical Data: See pages 9-48 to 9-49
 Drilling Plans and Dimensions: See page 9-49

Product Number Selection Instructions: See pages 9-2

Pilot and Signaling Devices

Heavy-Duty 30.5 mm Watertight/Oiltight Push Buttons

CR104P

Standard

Non-Illuminated

600 Volts Maximum AC/DC

10 Amperes Continuous

Suitable for use in NEMA Type 1, 3, 3R, 4, 4X, 12, and 13 applications when mounted in enclosures rated for those same applications. For some NEMA Type 4X applications, protective caps will improve corrosion resistance.

Extended Button - Momentary Operator

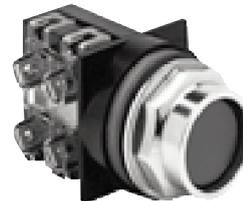
Contact Configuration	Color	Product Number	List Price GO-10P1
None (Operator Only)	Black	CR104PBG00B2	\$16.20
None (Operator Only)	Red	CR104PBG00R2	\$16.20
None (Operator Only)	Green	CR104PBG00G2	\$16.20
None (Operator Only)	1 Each: Red, Green, Yellow, Black	CR104PBG00U2 ¹	\$16.20
None (Operator Only)	1 Each: Brown, Blue, Orange, White	CR104PBG00V2 ¹	\$16.20
None (Operator Only)	Other	CR104PBG00*2 ²	\$15.90
1NO-1NC	Black	CR104PBG91B2	\$34.20
1NO-1NC	Red	CR104PBG91R2	\$34.20
1NO-1NC	Green	CR104PBG91G2	\$34.20
1NO-1NC	1 Each: Red, Green, Yellow, Black	CR104PBG91U2 ¹	\$34.20
1NO-1NC	1 Each: Brown, Blue, Orange, White	CR104PBG91V2 ¹	\$34.20
1NO-1NC	Other	CR104PBG91*2 ²	\$33.90
2NO-2NC	Black	CR104PBG92B2	\$52.20
2NO-2NC	Red	CR104PBG92R2	\$52.20
2NO-2NC	Green	CR104PBG92G2	\$52.20
2NO-2NC	1 Each: Red, Green, Yellow, Black	CR104PBG92U2 ¹	\$52.20
2NO-2NC	1 Each: Brown, Blue, Orange, White	CR104PBG92V2 ¹	\$52.20
2NO-2NC	Other	CR104PBG92*2 ²	\$51.90
1NO	Black	CR104PBG10B2	\$25.20
1NO	Red	CR104PBG10R2	\$25.20
1NO	Green	CR104PBG10G2	\$25.20
1NO	1 Each: Red, Green, Yellow, Black	CR104PBG10U2 ¹	\$25.20
1NO	1 Each: Brown, Blue, Orange, White	CR104PBG10V2 ¹	\$25.20
1NO	Other	CR104PBG10*2 ²	\$24.90
1NC	Black	CR104PBG01B2	\$25.20
1NC	Red	CR104PBG01R2	\$25.20
1NC	Green	CR104PBG01G2	\$25.20
1NC	1 Each: Red, Green, Yellow, Black	CR104PBG01U2 ¹	\$25.20
1NC	1 Each: Brown, Blue, Orange, White	CR104PBG01V2 ¹	\$25.20
1NC	Other	CR104PBG01*2 ²	\$24.90



Extended Button

Recessed Button - Momentary Operator

Contact Configuration	Color	Product Number	List Price GO-10P1
None (Operator Only)	Black	CR104PBG00B3	\$16.20
None (Operator Only)	Red	CR104PBG00R3	\$16.20
None (Operator Only)	Green	CR104PBG00G3	\$16.20
None (Operator Only)	1 Each: Red, Green, Yellow, Black	CR104PBG00U3 ¹	\$16.20
None (Operator Only)	1 Each: Brown, Blue, Orange, White	CR104PBG00V3 ¹	\$16.20
None (Operator Only)	Other	CR104PBG00*3 ²	\$15.90
1NO-1NC	Black	CR104PBG91B3	\$34.20
1NO-1NC	Red	CR104PBG91R3	\$34.20
1NO-1NC	Green	CR104PBG91G3	\$34.20
1NO-1NC	1 Each: Red, Green, Yellow, Black	CR104PBG91U3 ¹	\$34.20
1NO-1NC	1 Each: Brown, Blue, Orange, White	CR104PBG91V3 ¹	\$34.20
1NO-1NC	Other	CR104PBG91*3 ²	\$33.90
2NO-2NC	Black	CR104PBG92B3	\$52.20
2NO-2NC	Red	CR104PBG92R3	\$52.20
2NO-2NC	Green	CR104PBG92G3	\$52.20
2NO-2NC	1 Each: Red, Green, Yellow, Black	CR104PBG92U3 ¹	\$52.20
2NO-2NC	1 Each: Brown, Blue, Orange, White	CR104PBG92V3 ¹	\$52.20
2NO-2NC	Other	CR104PBG92*3 ²	\$51.90
1NO	Black	CR104PBG10B3	\$25.20
1NO	Red	CR104PBG10R3	\$25.20
1NO	Green	CR104PBG10G3	\$25.20
1NO	1 Each: Red, Green, Yellow, Black	CR104PBG10U3 ¹	\$25.20
1NO	1 Each: Brown, Blue, Orange, White	CR104PBG10V3 ¹	\$25.20
1NO	Other	CR104PBG10*3 ²	\$24.90
1NC	Black	CR104PBG01B3	\$25.20
1NC	Red	CR104PBG01R3	\$25.20
1NC	Green	CR104PBG01G3	\$25.20
1NC	1 Each: Red, Green, Yellow, Black	CR104PBG01U3 ¹	\$25.20
1NC	1 Each: Brown, Blue, Orange, White	CR104PBG01V3 ¹	\$25.20
1NC	Other	CR104PBG01*3 ²	\$24.90



Recessed Button

¹Supplied with 4 caps: Unassembled.

²To order assembled units with a different color, substitute the letter below in place of the * in product number and add required adder to the list price.

Cap Colors Available*

Color	Insert in place of asterisk (*)	List Price Adder, GO-10P1 Push Buttons
Yellow	E	\$0.30
Blue	L	\$0.30
Orange	M	\$0.30
Brown	N	\$0.30
White	W	\$0.30
No Cap	A	\$0.00



Pilot and Signaling Devices

Heavy-Duty 30.5 mm Watertight/Oiltight Push Buttons

Section 9

CR104P

Standard

Illuminated

600 Volts Maximum AC/DC

10 Amperes Continuous

Suitable for use in NEMA Types 1, 3, 3R, 4, 4X, 12, and 13 applications when mounted in enclosures rated for those same applications. For some NEMA Type 4X applications, protective caps will improve corrosion resistance.

Extended Button without Guard - Momentary Operator

Power Supply Type	Supply Voltage	Lamp Type ¹	Contact Configuration	Product Number ²	List Price GO-10P1
Transformer	120V 50/60 Hz	Incand., 6V, #755	1NO-1NC	CR104PBT11*1S2	\$82.20
Transformer	240V 50/60 Hz	Incand., 6V, #755	1NO-1NC	CR104PBT11*1S3	\$82.20
Transformer	480V 50/60 Hz	Incand., 6V, #755	1NO-1NC	CR104PBT11*1S4	\$82.20
Transformer	600V 50/60 Hz	Incand., 6V, #755	1NO-1NC	CR104PBT11*1S5	\$82.20
Full Voltage	6V 50/60 Hz	Incand., 6V, #755	1NO-1NC	CR104PBL11*1S6	\$70.20
Full Voltage	12V 50/60 Hz	Incand., 12V, #756	1NO-1NC	CR104PBL11*1S7	\$70.20
Full Voltage	24V 50/60 Hz	Incand., 24V, #1819	1NO-1NC	CR104PBL11*1S8	\$70.20
Full Voltage	120V 50/60 Hz	Incand., 130V	1NO-1NC	CR104PBL11*1S2	\$70.20
Dual Input ³	120V Dual Input	Incand., 130V	1NO-1NC	CR104PBL91*1H2	\$100.20
Full Voltage	6 VAC/DC	LED, 6V	1NO-1NC	CR104PBL11*1L6	\$88.20
Full Voltage	12 VAC/DC	LED, 12V	1NO-1NC	CR104PBL11*1L7	\$88.20
Full Voltage	24 VAC/DC	LED, 24V	1NO-1NC	CR104PBL11*1L8	\$88.20
Full Voltage	120 VAC/DC	LED, 120V	1NO-1NC	CR104PBL11*1L2	\$88.20



Extended without Guard

Extended Button with Guard - Momentary Operator

Power Supply Type	Supply Voltage	Lamp Type ¹	Contact Configuration	Product Number ²	List Price GO-10P1
Transformer	120V 50/60 Hz	Incand., 6V, #755	1NO-1NC	CR104PBT11*3S2	\$88.20
Transformer	240V 50/60 Hz	Incand., 6V, #755	1NO-1NC	CR104PBT11*3S3	\$88.20
Transformer	480V 50/60 Hz	Incand., 6V, #755	1NO-1NC	CR104PBT11*3S4	\$88.20
Transformer	600V 50/60 Hz	Incand., 6V, #755	1NO-1NC	CR104PBT11*3S5	\$88.20
Full Voltage	6V 50/60 Hz	Incand., 6V, #755	1NO-1NC	CR104PBL11*3S6	\$76.20
Full Voltage	12V 50/60 Hz	Incand., 12V, #756	1NO-1NC	CR104PBL11*3S7	\$76.20
Full Voltage	24V 50/60 Hz	Incand., 24V, #1819	1NO-1NC	CR104PBL11*3S8	\$76.20
Full Voltage	120V 50/60 Hz	Incand., 130V	1NO-1NC	CR104PBL11*3S2	\$76.20
Dual Input ³	120V Dual Input	Incand., 130V	1NO-1NC	CR104PBL11*3H2	\$106.20
Full Voltage	6 VAC/DC	LED, 6 V	1NO-1NC	CR104PBL11*3L6	\$94.20
Full Voltage	12 VAC/DC	LED, 12 V	1NO-1NC	CR104PBL11*3L7	\$94.20
Full Voltage	24 VAC/DC	LED, 24 V	1NO-1NC	CR104PBL11*3L8	\$94.20
Full Voltage	120 VAC/DC	LED, 120 V	1NO-1NC	CR104PBL11*3L2	\$94.20



Extended with Guard

¹All lamps miniature bayonet bases.

²Replace asterisk (*) in product number with letter from chart below.

³See page 9-3 for dual input wiring diagram.

Push-Push Maintained Operator

The push-push operated units are 2-position, maintained contact push buttons. They are assembled, ready for installation, except for the required nameplate which must be ordered as a separate item. Two single-circuit contact blocks are the maximum number that can be installed on the operator. All normally open contacts must be the early closing type.

Power Supply Type	Voltage (60/50 Hz)	Lamp Type ¹	Contact Configuration ³	Color	Product Number ⁴	List Price GO-10P1
Transformer	120 V	Incand., 6V, #755	1NC-1NO	Red	CR104PBT11R1B2	\$100.20
Transformer	120 V	Incand., 6V, #755	1NC-1NO	Green	CR104PBT11G1B2	\$100.20
Transformer	120 V	Incand., 6V, #755	1NC-1NO	Yellow	CR104PBT11E1B2	\$100.20
Transformer	120 V	Incand., 6V, #755	1NC-1NO	Blue	CR104PBT11B1B2	\$100.20
Transformer	120 V	Incand., 6V, #755	1NC-1NO	Amber	CR104PBT11M1B2	\$100.20
Transformer	120 V	Incand., 6V, #755	1NC-1NO	Clear	CR104PBT11C1B2	\$100.20
Transformer	120 V	Incand., 6V, #755	1NC-1NO	White	CR104PBT11W1B2	\$100.20

⁴Supplied with one NO (early closing) and one NC single circuit contact blocks.

Product number and price do not include nameplate. Nameplates must be ordered as separate item from pages 9-40 to 9-41. Resistor-type illuminated push button units are available. Contact your nearest GE Rep.

Lens Colors Available*

Color	Insert in place of asterisk (*)
No Lens Cap	A ⁵
Clear ⁶	C
Yellow	E
Green	G
Blue	L
Amber	M
Red	R
White	W

⁵Subtract \$4.20.

⁶Not available as LED.



Push-Push, Illuminated Push Button



Lamps: See pages 9-35
Nameplates: See pages 9-40 to 9-41
Technical Data: See pages 9-48 to 9-49

Drilling Plans and Dimensions: See page 9-49
Product Number Selection Instructions: See pages 9-2

Pilot and Signaling Devices

Heavy-Duty 30.5 mm Watertight/Oiltight Push Buttons

CR104P

Mushroom-Head
Non-Illuminated
600 Volts Maximum AC/DC
10 Amperes Continuous

One-step selection and pricing of common assembled forms.

Units are supplied factory-assembled when ordered with contact blocks, except 2 3/8" diameter mushroom-head, which is unattached.

Suitable for use in NEMA Type 1, 3, 3R, 4, 4X, 12, and 13 applications when mounted in enclosures rated for those same applications. For some NEMA Type 4X applications, protective caps will improve corrosion resistance.

1 3/8" Diameter - Momentary Operator

Contact Configuration	Color	Product Number	List Price GO-10P1
None (Operator Only)	Black	CR104PBM00B5	\$34.20
None (Operator Only)	Red	CR104PBM00R5	\$34.20
None (Operator Only)	Other	CR104PBM00*5 ¹	\$28.20
1NO-1NC	Black	CR104PBM91B5	\$52.20
1NO-1NC	Red	CR104PBM91R5	\$52.20
1NO-1NC	Other	CR104PBM91*5 ¹	\$46.20
2NO-2NC	Black	CR104PBM92B5	\$70.20
2NO-2NC	Red	CR104PBM92R5	\$70.20
2NO-2NC	Other	CR104PBM92*5 ¹	\$64.20
1NO	Black	CR104PBM10B5	\$43.20
1NO	Red	CR104PBM10R5	\$43.20
1NO	Other	CR104PBM10*5 ¹	\$37.20
1NC	Black	CR104PBM01B5	\$43.20
1NC	Red	CR104PBM01R5	\$43.20
1NC	Other	CR104PBM01*5 ¹	\$37.20

2 3/8" Diameter - Momentary Operator

Contact Configuration	Color	Product Number	List Price GO-10P1
None (Operator Only)	Black	CR104PBM00B6	\$34.20
None (Operator Only)	Red	CR104PBM00R6	\$34.20
None (Operator Only)	Other	CR104PBM00*6 ¹	\$28.20
1NO-1NC	Black	CR104PBM91B6	\$52.20
1NO-1NC	Red	CR104PBM91R6	\$52.20
1NO-1NC	Other	CR104PBM91*6 ¹	\$46.20
2NO-2NC	Black	CR104PBM92B6	\$70.20
2NO-2NC	Red	CR104PBM92R6	\$70.20
2NO-2NC	Other	CR104PBM92*6 ¹	\$64.20
1NO	Black	CR104PBM10B6	\$43.20
1NO	Red	CR104PBM10R6	\$43.20
1NO	Other	CR104PBM10*6 ¹	\$37.20
1NC	Black	CR104PBM01B6	\$43.20
1NC	Red	CR104PBM01R6	\$43.20
1NC	Other	CR104PBM01*6 ¹	\$37.20

1 3/8" Diameter Push-to-latch, turn-to-release

Contact Configuration	Color	Product Number	List Price GO-10P1
None (Operator Only)	Red	CR104PTR20A0R	\$52.20
1NO-1NC	Red	CR104PTR20A0R91	\$70.20
2NO-2NC	Red	CR104PTR20A0R92	\$88.20
1NO	Red	CR104PTR20A0R1	\$61.20
1NC	Red	CR104PTR20A0R01	\$61.20

¹To order assembled units with a different color, substitute the letter below in place of the * in product number and add required adder to the list price.

Push-Pull Maintained Operator

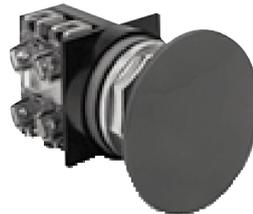
Contact Configuration	Color	Operation	Product Number	List Price GO-10P1
1NO-1NC	Red	2 Position Maintained	CR104PBM01R5C	\$61.20
1NC-1NC late breaking	Red	3 Position, Momentary Push, Momentary Pull	CR104PBM0LR5D	\$61.20
1NC-1NC late breaking	Red	3 Position, Maintained Push, Momentary Pull	CR104PBM0LR5E	\$61.20

Cap Colors Available*

Color	Insert in place of asterisk (*)	List Price Adder, GO-10P1 Mushroom Heads
Yellow	E	\$6.00
Green	G	\$6.00
No Cap	A	\$0.00



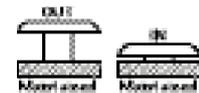
1 3/8" Mushroom Head



2 3/8" Mushroom Head



Push-to-Latch, Turn-to-Release



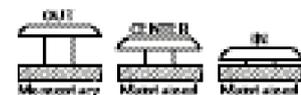
2 Position Maintained

NC X O
NO O X



Momentary Push - Momentary Pull

NC X X O
NC X O O



Maintained Push - Momentary Pull

NC X X O
NC X O O



Pilot and Signaling Devices

Heavy-Duty 30.5 mm Watertight/Oiltight Push Buttons

CR104P

Section 9

Mushroom-Head
600 Volts Maximum AC/DC
10 Amperes Continuous

Suitable for use in NEMA Types 1, 3, 3R, 4, 4X, 12, and 13 applications when mounted in enclosures rated for those same applications.

1 3/8" Diameter Illuminated - Momentary Operator

Power Supply Type	Supply Voltage	Lamp Type ¹	Contact Configuration	Product Number ²	List Price GO-10P1
Transformer	120V 50/60 Hz	Incand., 6V, #755	1NO-1NC	CR104PBT11*5S2	\$96.20
Transformer	240V 50/60 Hz	Incand., 6V, #755	1NO-1NC	CR104PBT11*5S3	\$96.20
Transformer	480V 50/60 Hz	Incand., 6V, #755	1NO-1NC	CR104PBT11*5S4	\$96.20
Transformer	600V 50/60 Hz	Incand., 6V, #755	1NO-1NC	CR104PBT11*5S5	\$96.20
Full Voltage	6V 50/60 Hz	Incand., 6V, #755	1NO-1NC	CR104PBL11*5S6	\$84.20
Full Voltage	12V 50/60 Hz	Incand., 12V, #756	1NO-1NC	CR104PBL11*5S7	\$84.20
Full Voltage	24V 50/60 Hz	Incand., 24V, #1819	1NO-1NC	CR104PBL11*5S8	\$84.20
Full Voltage	120V 50/60 Hz	Incand., 130V	1NO-1NC	CR104PBL11*5S2	\$84.20
Full Voltage	6 VAC/DC	LED, 6V	1NO-1NC	CR104PBL11*5L6	\$102.20
Full Voltage	12 VAC/DC	LED, 12V	1NO-1NC	CR104PBL11*5L7	\$102.20
Full Voltage	24 VAC/DC	LED, 24V	1NO-1NC	CR104PBL11*5L8	\$102.20
Full Voltage	120 VAC/DC	LED, 120V	1NO-1NC	CR104PBL11*5L2	\$102.20



Illuminated Mushroom-Head Push Button

1 5/8" Diameter Illuminated - Momentary Operator

Power Supply Type	Supply Voltage	Lamp Type ¹	Contact Configuration	Product Number ^{2,3}	List Price GO-10P1
Transformer	120V 50/60 Hz	Incand., 6V, #755	1NO-1NC	CR104PBT11*7S2	\$96.20
Transformer	240V 50/60 Hz	Incand., 6V, #755	1NO-1NC	CR104PBT11*7S3	\$96.20
Transformer	480V 50/60 Hz	Incand., 6V, #755	1NO-1NC	CR104PBT11*7S4	\$96.20
Transformer	600V 50/60 Hz	Incand., 6V, #755	1NO-1NC	CR104PBT11*7S5	\$96.20
Full Voltage	6V 50/60 Hz	Incand., 6V, #755	1NO-1NC	CR104PBL11*7S6	\$84.20
Full Voltage	12V 50/60 Hz	Incand., 12V, #756	1NO-1NC	CR104PBL11*7S7	\$84.20
Full Voltage	24V 50/60 Hz	Incand., 24V, #1819	1NO-1NC	CR104PBL11*7S8	\$84.20
Full Voltage	120V 50/60 Hz	Incand., 130V	1NO-1NC	CR104PBL11*7S2	\$84.20
Full Voltage	6 VAC/DC	LED, 6V	1NO-1NC	CR104PBL11*7L6	\$102.20
Full Voltage	12 VAC/DC	LED, 12V	1NO-1NC	CR104PBL11*7L7	\$102.20
Full Voltage	24 VAC/DC	LED, 24V	1NO-1NC	CR104PBL11*7L8	\$102.20
Full Voltage	120 VAC/DC	LED, 120V	1NO-1NC	CR104PBL11*7L2	\$102.20

¹All lamps miniature bayonet bases.

²Replace asterisk (*) in product number with letter from chart below.

³1 5/8" mushroom-head push buttons are special order—nonstock.

Lens Colors Available*

Color	Insert in place of asterisk (*)
No Lens Cap	A ⁴
Clear ⁵	C
Yellow	E
Green	G
Blue	L
Amber	M
Red	R
White	W

⁴Subtract \$4.20.

⁵Not available as LED.



Lamps: See pages 9-35
Nameplates: See pages 9-40 to 9-41
Technical Data: See pages 9-48 to 9-49

Drilling Plans and Dimensions: See page 9-49
Product Number Selection Instructions: See pages 9-2

Pilot and Signaling Devices

Heavy-Duty 30.5 mm Watertight/Oiltight Push Buttons

CR104P

Key Operated
 600 Volts Maximum AC/DC
 10 Amperes Continuous

Product Number and price do not include nameplate. All nameplates must be ordered as a separate item. Four single-circuit or four double-circuit contact blocks are maximum number that can be assembled to cylinder lock operators.

Suitable for use in NEMA Type 1, 3, 3R, 4, 4X, 12, and 13 applications, when mounted in enclosures rated for those same applications. For some NEMA Type 4X applications, protective caps will provide improved corrosion resistance.

Operator Alone

Position Type	Release Type	Product Number	List Price GO-10P1
Lock in Depressed and Free Positions	-	CR104PBK00A1J	\$52.20
Lock Only in Free Position	-	CR104PBK00A1K	\$52.20
Lock Only in Depressed Position	-	CR104PBK00A1L	\$52.20
-	Push-To-Latch, Key Operate To Reset	CR104PBK00A1M	\$52.20

Select contact blocks from page 9-34.

Assembled Operator

Position Type	Release Type	Contact Configuration	Product Number	List Price GO-10P1
Lock in Depressed and Free Positions	-	1NO-1NC	CR104PBK91A1J	\$70.20
Lock Only in Free Position	-	1NO-1NC	CR104PBK91A1K	\$70.20
Lock Only in Depressed Position	-	1NO-1NC	CR104PBK91A1L	\$70.20
-	Push-To-Latch, Key Operate To Reset	1NO-1NC	CR104PBK91A1M	\$70.20



Key Operated Push Button



Pilot and Signaling Devices

Heavy-Duty 30.5 mm Watertight/Oiltight Push Buttons

Section 9

CR104P

Special Function
 Non-Illuminated
 600 Volts Maximum AC/DC
 10 Amperes Continuous

Product Number and price do not include nameplate. All nameplates must be ordered as a separate item. Four single-circuit or four double-circuit contact blocks are maximum number that can be assembled to cylinder lock operators.

Suitable for use in NEMA Type 1, 3, 3R, 4, 4X, 12, and 13 applications, when mounted in enclosures rated for those same applications. For some NEMA Type 4X applications, protective caps will provide improved corrosion resistance.

Push-Push

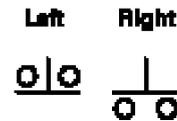
The push-push operated units are 2-position, maintained contact push buttons. They are assembled, ready for installation, except for the required nameplate which must be ordered as a separate item. Two single-circuit contact blocks are the maximum number that can be installed on the operator. All normally open contacts must be the early closing type.

Contact Configuration ¹	Color	Product Number	List Price GO-10P1
1NC-1NO	Black	CR104PBG11B1B	\$52.20
1NC-1NO	Red	CR104PBG11R1B	\$52.20
1NC-1NO	Green	CR104PBG11G1B	\$52.20
1NC-1NO	Yellow	CR104PBG11E1B	\$52.20
1NC-1NO	Blue	CR104PBG11L1B	\$52.20
1NC-1NO	Orange	CR104PBG11M1B	\$52.20
1NC-1NO	Brown	CR104PBG11N1B	\$52.20
1NC-1NO	White	CR104PBG11W1B	\$52.20

¹Supplied with one NO (early make) and one NC single-circuit contact block.



Push-Push, Non-Illuminated
 Push Button



Contact Configuration

Time-Delay (Adjustable 0.5-30 Seconds)

Contact Configuration	Color	Product Number	List Price GO-10P1
1NO-1NC	Black	CR104PBG99B1	\$106.20
1NO-1NC	Red	CR104PBG99R1	\$106.20
1NO-1NC	Green	CR104PBG99G1	\$106.20
1NO-1NC	No Cap	CR104PBG99A1	\$105.90
1NO-1NC	Yellow	CR104PBG99E1	\$106.20
1NO-1NC	Blue	CR104PBG99L1	\$106.20
1NO-1NC	Orange	CR104PBG99M1	\$106.20
1NO-1NC	Brown	CR104PBG99N1	\$106.20
1NO-1NC	White	CR104PBG99W1	\$106.20



Time-Delay Push Button



Nameplates: See pages 9-40 to 9-41
 Technical Data: See pages 9-48 to 9-49
 Drilling Plans and Dimensions: See page 9-49

Product Number Selection Instructions: See pages 9-2

Pilot and Signaling Devices Heavy-Duty 30.5 mm Watertight/Oiltight Push Buttons

Section 9

CR104P

Special Function
Non-Illuminated
Push-Turn
600 Volts Maximum AC/DC
10 Amperes Continuous

Suitable for use in NEMA Types 1, 12, and 13 applications when mounted in enclosures rated for those same applications. For some NEMA Type 4X applications, protective caps will improve corrosion resistance.



Push-Turn Unit

2-Position

Contact State		Turn Position		Product Number ¹	List Price GO-1041
Push Position		⌚	⌚		
Free				CR104PTP2560*92	\$70.20
Depressed					
Free				CR104PTP2600*92	\$70.20
Depressed					
Free				CR104PTP2180*91	\$52.20
Depressed					
Free				CR104PTP2280*91	\$52.20
Depressed					
Free				CR104PTP2280*92	\$70.20
Depressed					
Free				CR104PTP2220*92	\$70.20
Depressed					
Free				CR104PTP21C0*92	\$70.20
Depressed					
Free				CR104PTP23C0*92	\$70.20
Depressed					
Free				CR104PTP23B0*92	\$70.20
Depressed					
Free				CR104PTP24C0*92	\$70.20
Depressed					
Free				CR104PTP24E3*92	\$70.20
Depressed					
Free				CR104PTP25B3*92	\$70.20
Depressed					

3-Position

Contact State		Turn Position			Product Number ¹	List Price GO-1041
Push Position		⌚	⌚	⌚		
Free					CR104PTP3160*92	\$70.20
Depressed						
Free					CR104PTP3160*92	\$70.20
Depressed						
Free					CR104PTP34E6*91	\$52.20
Depressed						
Free					CR104PTP32F2*92	\$70.20
Depressed						
Free					CR104PTP33G2*92	\$70.20
Depressed						

¹Replace asterisk (*) in product number with letter from chart below.

Cap Colors Available*

Color	Insert in place of asterisk (*)
Black	B
Red	R
Green	G
Yellow	E



Pilot and Signaling Devices

Heavy-Duty 30.5 mm Watertight/Oiltight Push Buttons

Section 9

CR104P

Special Function

Illuminated

600 Volts Maximum AC/DC

10 Amperes Continuous

Suitable for use in NEMA Types 1, 3, 3R, 4, 4X, 12, and 13 applications when mounted in enclosures rated for those same applications. For some NEMA Type 4X applications, protective caps will improve corrosion resistance. Not available for CR104PBT devices.

2-Position Maintained 1 3/8" diameter

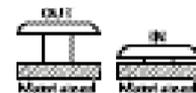
Power Supply Type	Supply Voltage	Lamp Type ¹	Contact Configuration	Product Number ²	List Price GO-10P1
Transformer	120V 50/60 Hz	Incand., 6V, #755	1NO-1NC	CR104PBT11*5C2	\$100.20
Transformer	240V 50/60 Hz	Incand., 6V, #755	1NO-1NC	CR104PBT11*5C3	\$100.20
Transformer	480V 50/60 Hz	Incand., 6V, #755	1NO-1NC	CR104PBT11*5C4	\$100.20
Transformer	600V 50/60 Hz	Incand., 6V, #755	1NO-1NC	CR104PBT11*5C5	\$100.20
Full Voltage	6V 50/60 Hz	Incand., 6V, #755	1NO-1NC	CR104PBL11*5C6	\$88.20
Full Voltage	12V 50/60 Hz	Incand., 12V, #756	1NO-1NC	CR104PBL11*5C7	\$88.20
Full Voltage	24V 50/60 Hz	Incand., 24V, #1819	1NO-1NC	CR104PBL11*5C8	\$88.20
Full Voltage	120V 50/60 Hz	Incand., 130V	1NO-1NC	CR104PBL11*5C2	\$88.20
Resistor	120V 50/60 Hz	Incand., 60V	1NO-1NC	CR104PBR11*5C2	\$88.20
Resistor	240V 50/60 Hz	Incand., 130V	1NO-1NC	CR104PBR11*5C3	\$88.20
Full Voltage	6 VAC/DC	LED, 6V	1NO-1NC	CR104PBL11*5P6	\$106.20
Full Voltage	12 VAC/DC	LED, 12V	1NO-1NC	CR104PBL11*5P7	\$106.20
Full Voltage	24 VAC/DC	LED, 24V	1NO-1NC	CR104PBL11*5P8	\$106.20
Full Voltage	120 VAC/DC	LED, 120V	1NO-1NC	CR104PBL11*5P2	\$106.20



Push-Pull Illuminated Push Button

Push-Pull 3-Position Momentary Push-Momentary Pull

Power Supply Type	Supply Voltage	Lamp Type ¹	Contact Configuration	Color	Product Number	List Price GO-10P1
Transformer	120V 50/60 Hz	Incand., 6V, #755	1NC-1NC late breaking	Red Lens	CR104PBT0LR5D2	\$100.20
Transformer	240V 50/60 Hz	Incand., 6V, #755	1NC-1NC late breaking	Red Lens	CR104PBT0LR5D3	\$100.20
Transformer	480V 50/60 Hz	Incand., 6V, #755	1NC-1NC late breaking	Red Lens	CR104PBT0LR5D4	\$100.20
Transformer	600V 50/60 Hz	Incand., 6V, #755	1NC-1NC late breaking	Red Lens	CR104PBT0LR5D5	\$100.20
Full Voltage	6V 50/60 Hz	Incand., 6V, #755	1NC-1NC late breaking	Red Lens	CR104PBL0LR5D6	\$88.20
Full Voltage	12V 50/60 Hz	Incand., 12V, #756	1NC-1NC late breaking	Red Lens	CR104PBL0LR5D7	\$88.20
Full Voltage	24V 50/60 Hz	Incand., 24V, #1819	1NC-1NC late breaking	Red Lens	CR104PBL0LR5D8	\$88.20
Full Voltage	120V 50/60 Hz	Incand., 130V	1NC-1NC late breaking	Red Lens	CR104PBL0LR5D2	\$88.20
Resistor	120V 50/60 Hz	Incand., 60V	1NC-1NC late breaking	Red Lens	CR104PBR0LR5D2	\$88.20
Resistor	240V 50/60 Hz	Incand., 130V	1NC-1NC late breaking	Red Lens	CR104PBR0LR5D3	\$88.20
Full Voltage	6 VAC/DC	LED, 6V	1NC-1NC late breaking	Red Lens	CR104PBL0LR5K6	\$106.20
Full Voltage	12 VAC/DC	LED, 12V	1NC-1NC late breaking	Red Lens	CR104PBL0LR5K7	\$106.20
Full Voltage	24 VAC/DC	LED, 24V	1NC-1NC late breaking	Red Lens	CR104PBL0LR5K8	\$106.20
Full Voltage	120 VAC/DC	LED, 120V	1NC-1NC late breaking	Red Lens	CR104PBL0LR5K2	\$106.20



2 Position Maintained

NC X O
NO O X



Momentary Push - Momentary Pull

³NC X X O
NC X O O



Maintained Push - Momentary Pull

³NC X X O
NC X O O

Push-Pull 3-Position Maintained Push-Momentary Pull

Power Supply Type	Supply Voltage	Lamp Type ¹	Contact Configuration	Color	Product Number	List Price GO-10P1
Transformer	120V 50/60 Hz	Incand., 6V, #755	1NC-1NC late breaking	Red Lens	CR104PBT0LR5E2	\$100.20
Transformer	240V 50/60 Hz	Incand., 6V, #755	1NC-1NC late breaking	Red Lens	CR104PBT0LR5E3	\$100.20
Transformer	480V 50/60 Hz	Incand., 6V, #755	1NC-1NC late breaking	Red Lens	CR104PBT0LR5E4	\$100.20
Transformer	600V 50/60 Hz	Incand., 6V, #755	1NC-1NC late breaking	Red Lens	CR104PBT0LR5E5	\$100.20
Full Voltage	6V 50/60 Hz	Incand., 6V, #755	1NC-1NC late breaking	Red Lens	CR104PBL0LR5E6	\$88.20
Full Voltage	12V 50/60 Hz	Incand., 12V, #756	1NC-1NC late breaking	Red Lens	CR104PBL0LR5E7	\$88.20
Full Voltage	24V 50/60 Hz	Incand., 24V, #1819	1NC-1NC late breaking	Red Lens	CR104PBL0LR5E8	\$88.20
Full Voltage	120V 50/60 Hz	Incand., 130V	1NC-1NC late breaking	Red Lens	CR104PBL0LR5E2	\$88.20
Resistor	120V 50/60 Hz	Incand., 60V	1NC-1NC late breaking	Red Lens	CR104PBR0LR5E2	\$88.20
Resistor	240V 50/60 Hz	Incand., 130V	1NC-1NC late breaking	Red Lens	CR104PBR0LR5E3	\$88.20
Full Voltage	6 VAC/DC	LED, 6V	1NC-1NC late breaking	Red Lens	CR104PBL0LR5M6	\$106.20
Full Voltage	12 VAC/DC	LED, 12V	1NC-1NC late breaking	Red Lens	CR104PBL0LR5M7	\$106.20
Full Voltage	24 VAC/DC	LED, 24V	1NC-1NC late breaking	Red Lens	CR104PBL0LR5M8	\$106.20
Full Voltage	120 VAC/DC	LED, 120V	1NC-1NC late breaking	Red Lens	CR104PBL0LR5M2	\$106.20

¹All lamps miniature bayonet bases.

²Replace asterisk (*) in product number with letter from chart to right.

³Normally closed, late-breaking contacts.

Lens Colors Available*

Color	Insert in place of asterisk (*)
No Lens Cap	A ⁴
Clear ⁵	C
Yellow	E
Green	G
Blue	L
Amber	M
Red	R
White	W

⁴Subtract \$4.20.

⁵Not available as LED.



Lamps: See pages 9-35
Nameplates: See pages 9-40 to 9-41
Technical Data: See pages 9-48 to 9-49

Drilling Plans and Dimensions: See page 9-49
Product Number Selection Instructions: See pages 9-2

Pilot and Signaling Devices

Heavy-Duty 30.5 mm Watertight/Oiltight Push Buttons

CR104P

Protected Mushroom-Head
600 Volts Max. AC/DC
10 Amperes Continuous

CR104PTY protected mushroom-head push buttons are designed specifically for rugged industrial applications and hazardous duty environments, including food and beverage, mining, construction, timber, pulp/paper, and automotive/trucking industries. They also are ideal for such E-stop applications as fuel stations and airport baggage handling equipment.

In addition to providing unsurpassed vibration and impact resistance, CR104PTY protected mushroom-head push buttons allow operation with heavy gloves, provide illuminated lens visibility from all angles, and permit mounting of four double-circuit contact blocks. The bright chrome operator is available in two- or three-position forms. It can be used with other CR104P operators or as a stand-alone unit.

Suitable for use in NEMA Types 1, 3, 3R, 4, 4X, 12, and 13 applications when mounted in enclosures rated for those same applications. For some NEMA Type 4X applications, protective caps will improve corrosion resistance.



All Forms

Step-by-step selection and pricing of all forms.

Product Number	C	R	1	O	4	P	T	Y	1	2	3	4	= Complete Product No. + \$ Total List Price, G0-1071

(Photocopying this blank form will allow for its repeated use.)

1 Select Operator

Select the operator. Transfer the product number digit to the box marked 1 in the product number line and the price to the box marked 1 in the price line at the bottom of next page.

Note your operator's product number digit for use in later selection steps.

Version	Product No. Digit	List Price Adder, G0-1071
2-Position Push-Pull Maintained ¹	2	\$43.00
3-Position Momentary Push-Pull ¹	4	\$43.00
3-Position Momentary Push, Maintained Push ¹	5	\$43.00

¹ See pages 9-34 for contact types/positions

2 Select Service Voltage

Select service voltage. Transfer the product number digit to the box marked 2 in the product number line and the price to the box marked 2 in the price line at the bottom of next page.

Service Voltage	Product No. Digit	List Price Adder, G0-1071
Non-Illuminated	00	\$4.84 (NCL)
No Lamp ²	10	\$10.00
120V	11	\$21.00
60V	12	\$21.00
12V	13	\$21.00
18V	14	\$21.00
24V	15	\$21.00

² Basic line version—no set voltage and no lamp. Use LED listed on page 9-35 when longer bulb life is required. LED must match lens color.

3 Select Cap/Lens Color

Select cap/lens color. Transfer the product number digit to the box marked 3 in the product number line and the price to the box marked 3 in the price line at the bottom of next page.

Cap/Lens Color	Product No. Digit	List Price Adder, G0-1071
No Cap	1	\$0.00 (NCL)
Black	2	\$5.00
Red	3	\$5.00
Orange	4	\$5.00
Yellow	5	\$5.00
Green	6	\$5.00
Blue	7	\$5.00
White	8	\$5.00

4 Select Contact Block

Select contact block. Transfer the product number digit to the box marked 4 in the product number line and the price to the box marked 4 in the price line at the bottom of this page.

Contact Block	Product No. Digit	List Price Adder, G0-1071
No contact block	00	\$2.00 (NCL)
1 Normally Closed (NCL)	01	\$8.00
2NC	02	\$18.00
1 Normally Open (NCL)	03	\$8.00
1NO-1NC	11	\$18.00
2NO	20	\$18.00
2NO-2NC	22	\$28.00



Lamps: See pages 9-35

Nameplates: See pages 9-40 to 9-41
Technical Data: See pages 9-48 to 9-49
Drilling Plans and Dimensions: See page 9-49

Pilot and Signaling Devices

Heavy-Duty 30.5 mm Watertight/Oiltight Push Buttons

CR104P

Section 9

Protected Mushroom-Head
 600 Volts Max. AC/DC
 10 Amperes Continuous

2-Position

		
Contact stack	Maintained Pull-Out	Maintained Pull-In
NO	X	0
NO	0	X

3-Position

				
Contact stack	Contact position	Momentary Pull-Out	Maintained Center	Momentary Pull-In
NO	left	X	0	0
NO	left	0	0	X
NC	right	X	X	0
NCEM	left	0	X	X

NCEM—Normally Open Early Make
 NOTE: All other combinations are invalid.



Pilot and Signaling Devices

Heavy-Duty 30.5 mm Watertight/Oiltight Pilot Devices

CR104P

600 Volts Max. AC/DC

10 Amperes Continuous

Suitable for use in NEMA Types 1, 3, 3R, 4, 4X, 12, and 13 applications when mounted in enclosures rates for those same applications. For some NEMA Type 4X applications, protective caps will improve corrosion resistance.

Standard Indicating Lights

Power Supply Type	Supply Voltage	Lamp Type	Product Number ¹	List Price GO-10P1
Transformer	120V 50/60 Hz	Incand., 6V, #755	CR104PLG32*	\$64.20
Transformer	200-208V 60 Hz	Incand., 6V, #755	CR104PLG3A*	\$64.20
Transformer	240V 50/60 Hz	Incand., 6V, #755	CR104PLG33*	\$64.20
Transformer	277V 60 Hz	Incand., 6V, #755	CR104PLG3B*	\$64.20
Transformer	347V 60 Hz	Incand., 6V, #755	CR104PLG3C*	\$64.20
Transformer	480V 50/60 Hz	Incand., 6V, #755	CR104PLG34*	\$64.20
Transformer	600V 50/60 Hz	Incand., 6V, #755	CR104PLG35*	\$64.20
Full Voltage	6V 50/60 Hz	Incand., 6V, #755	CR104PLG16*	\$52.50
Full Voltage	12V 50/60 Hz	Incand., 12V, #756	CR104PLG17*	\$52.50
Full Voltage	24V 50/60 Hz	Incand., 24V, #1819	CR104PLG18*	\$52.50
Full Voltage	120V 50/60 Hz	Incand., 130V	CR104PLG22*	\$52.50
Resistor	120V 50/60 Hz	Incand., 60V	CR104PLG42*	\$52.50
Resistor	240V 50/60 Hz	Incand., 130V	CR104PLG43*	\$52.50
Transformer	120V 50/60 Hz	LED, 6V	CR104PLG92*	\$82.20
Transformer	200-208V 60 Hz	LED, 6V	CR104PLG9A*	\$82.20
Transformer	240V 50/60 Hz	LED, 6V	CR104PLG93*	\$82.20
Transformer	277V 60 Hz	LED, 6V	CR104PLG9B*	\$82.20
Transformer	347V 60 Hz	LED, 6V	CR104PLG9C*	\$82.20
Transformer	480V 50/60 Hz	LED, 6V	CR104PLG94*	\$82.20
Transformer	600V 50/60 Hz	LED, 6V	CR104PLG95*	\$82.20
Full Voltage	6 VAC/DC	LED, 6V	CR104PLG86*	\$70.20
Full Voltage	12 VAC/DC	LED, 12V	CR104PLG87*	\$70.20
Full Voltage	24 VAC/DC	LED, 24V	CR104PLG88*	\$70.20
Full Voltage	120 VAC/DC	LED, 120V	CR104PLG82*	\$70.20
Transformer, Flashing	120V 50/60 Hz	Incand., 6V, #267 Flasher	CR104PLG62*	\$67.20
Transformer, Flashing	200-208V 60 Hz	Incand., 6V, #267 Flasher	CR104PLG6A*	\$67.20
Transformer, Flashing	240V 50/60 Hz	Incand., 6V, #267 Flasher	CR104PLG63*	\$67.20
Transformer, Flashing	277V 60 Hz	Incand., 6V, #267 Flasher	CR104PLG6B*	\$67.20
Transformer, Flashing	347V 60 Hz	Incand., 6V, #267 Flasher	CR104PLG6C*	\$67.20
Transformer, Flashing	480V 50/60 Hz	Incand., 6V, #267 Flasher	CR104PLG64*	\$67.20
Transformer, Flashing	600V 50/60 Hz	Incand., 6V, #267 Flasher	CR104PLG65*	\$67.20
Full Voltage, Flashing	6V 50/60 Hz	Incand., 6V, #267 Flasher	CR104PLG56*	\$70.20
Full Voltage	120V	Neon, 120V, #NE51H-R	CR104PLG72*	\$55.20



Standard

Push to Test Indicating Lights

Power Supply Type	Supply Voltage	Lamp Type	Product Number ¹	List Price GO-10P1
Transformer	120V 50/60 Hz	Incand., 6V, #755	CR104PLT32*	\$82.20
Transformer	200-208V 60 Hz	Incand., 6V, #755	CR104PLT3A*	\$82.20
Transformer	240V 50/60 Hz	Incand., 6V, #755	CR104PLT33*	\$82.20
Transformer	277V 60 Hz	Incand., 6V, #755	CR104PLT3B*	\$82.20
Transformer	347V 60 Hz	Incand., 6V, #755	CR104PLT3C*	\$82.20
Transformer	480V 50/60 Hz	Incand., 6V, #755	CR104PLT34*	\$82.20
Transformer	600V 50/60 Hz	Incand., 6V, #755	CR104PLT35*	\$82.20
Full Voltage	6V 50/60 Hz	Incand., 6V, #755	CR104PLT16*	\$70.20
Full Voltage	12V 50/60 Hz	Incand., 12V, #756	CR104PLT17*	\$70.20
Full Voltage	24V 50/60 Hz	Incand., 24V, #1819	CR104PLT18*	\$70.20
Full Voltage	120V 50/60 Hz	Incand., 130V	CR104PLT22*	\$70.20
Resistor	120V 50/60 Hz	Incand., 60V	CR104PLT42*	\$70.20
Resistor	240V 50/60 Hz	Incand., 130V	CR104PLT43*	\$70.20
Transformer	120V 50/60 Hz	LED, 6V	CR104PLT92*	\$100.20
Transformer	200-208V 60 Hz	LED, 6V	CR104PLT9A*	\$100.20
Transformer	240V 50/60 Hz	LED, 6V	CR104PLT93*	\$100.20
Transformer	277V 60 Hz	LED, 6V	CR104PLT9B*	\$100.20
Transformer	347V 60 Hz	LED, 6V	CR104PLT9C*	\$100.20
Transformer	480V 50/60 Hz	LED, 6V	CR104PLT94*	\$100.20
Transformer	600V 50/60 Hz	LED, 6V	CR104PLT95*	\$100.20
Full Voltage	6 VAC/DC	LED, 6V	CR104PLT86*	\$88.20
Full Voltage	12 VAC/DC	LED, 12V	CR104PLT87*	\$88.20
Full Voltage	24 VAC/DC	LED, 24V	CR104PLT88*	\$88.20
Full Voltage	120 VAC/DC	LED, 120V	CR104PLT82*	\$88.20
Transformer, Flashing	120V 50/60 Hz	Incand., 6V, #267 Flasher	CR104PLT62*	\$85.20
Transformer, Flashing	200-208V 60 Hz	Incand., 6V, #267 Flasher	CR104PLT6A*	\$85.20
Transformer, Flashing	240V 50/60 Hz	Incand., 6V, #267 Flasher	CR104PLT63*	\$85.20
Transformer, Flashing	277V 60 Hz	Incand., 6V, #267 Flasher	CR104PLT6B*	\$85.20
Transformer, Flashing	347V 60 Hz	Incand., 6V, #267 Flasher	CR104PLT6C*	\$85.20
Transformer, Flashing	480V 50/60 Hz	Incand., 6V, #267 Flasher	CR104PLT64*	\$85.20
Transformer, Flashing	600V 50/60 Hz	Incand., 6V, #267 Flasher	CR104PLT65*	\$85.20
Full Voltage, Flashing	6V 50/60 Hz	Incand., 6V, #267 Flasher	CR104PLT56*	\$88.20
Full Voltage	120V	Neon, 120V, #NE51H-R	CR104PLT72*	\$73.20



Push-to-Test

Lens Colors Available*

Color	Insert in place of asterisk (*)
No Lens	A ^{2,3,4}
Clear ⁴	C ³
Yellow	E ⁴
Green	G ⁴
Blue	L ⁴
Amber	M
Red	R
White	W

²Subtract \$4.20 from list price with no lens.

³Not suitable for use with LED.

⁴Not suitable for use with NEON light.

¹Replace asterisk (*) in product number with letter from table on right.



Lamps: See page 9-35

Nameplates: See pages 9-40 to 9-41

Technical Data: See pages 9-48 to 9-49

Drilling Plans and Dimensions: See page 9-49

Pilot and Signaling Devices

Heavy-Duty 30.5 mm Watertight/Oiltight Push Buttons

CR104P

600 Volts Max. AC/DC
10 Amperes Continuous

Suitable for use in NEMA Types 1, 3, 3R, 4, 4X, 12, and 13 applications when mounted in enclosures rated for those same applications. For some NEMA Type 4X applications, protective caps will improve corrosion resistance.

Cluster-Type (Steady Light, Miniature Bayonet Lamp Socket)

Power Supply Type	Supply Voltage	Lamp Type	Cluster Type	Product Number	List Price GO-10P1
Full Voltage	6V 50/60 Hz	Incand., 6V, #176B	2-Lamp	CR104PLB16W	\$112.20
Full Voltage	12V 50/60Hz	Incand., 12V, #373	2-Lamp	CR104PLB17W	\$112.20
Full Voltage	24V 50/60 Hz	Incand., 24V, #399	2-Lamp	CR104PLB18W	\$112.20
Full Voltage	6V 50/60 Hz	Incand., 6V, #176B	4-Lamp	CR104PLQ16W	\$238.20
Full Voltage	12V 50/60Hz	Incand., 12V, #373	4-Lamp	CR104PLQ17W	\$238.20
Full Voltage	24V 50/60 Hz	Incand., 24V, #399	4-Lamp	CR104PLQ18W	\$238.20

All cluster lights shipped with one boot of each of the following colors—yellow, green, blue, and red. Bulb extractor available, CR104MG128 at List Price, GO-10P1, \$6.00.

Accessories

Cluster lights provide either two or four separate light signals in the same space as one full-size indicating light. Colored boots can provide color distinction to each lamp. Applications should not energize more than two lamps continuously.

Accessory Type	Color	Package Quantity	Product Number	List Price GO-10P1
Lens and Divider (2 Lamp Cluster)	White		CR104PXL02W	\$5.70
Lens and Divider (4 Lamp Cluster)	White		CR104PXL04W	\$5.70
Cluster-Type Pilot Light Boots	Yellow	4	CR104PXL08E	\$0.37
Cluster-Type Pilot Light Boots	Green	4	CR104PXL08G	\$0.37
Cluster-Type Pilot Light Boots	Blue	4	CR104PXL08L	\$0.37
Cluster-Type Pilot Light Boots	Red	4	CR104PXL08R	\$0.37
Cluster-Type Pilot Light Boots	1 Each: Yellow, Green, Blue, Red	Four, 1 each color	CR104PXL08T	\$1.50 per package



Cluster Lights

Remote Test Lights (Dual Input Illuminated Push Buttons)

Dual input illuminated push buttons and indicating lights allow a number of lights to be tested from a single test button without operating the control circuit. A dual input illuminated push button without contacts is a remote test indicating light.

Power Supply Type	Supply Voltage	Lamp Type	Contacts	Product Number ¹	List Price GO-10P1
Full Voltage	120V 50/60 Hz	Incand., 120V, #90MB	with	CR104PBL91*1H2	\$100.20
Full Voltage	120V 50/60 Hz	Incand., 120V, #90MB	without	CR104PBL00*1H2	\$82.20

¹Replace asterisk (*) in product number with letter from table below.

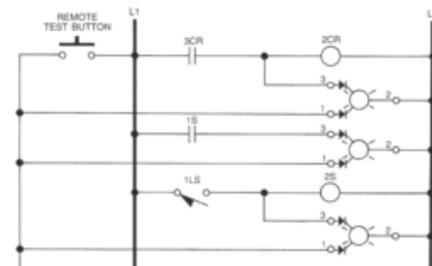
Lens Colors Available*

Color	Insert in place of asterisk (*)
No Lens	A ^{2,3,4}
Clear ⁴	C ³
Yellow	E ⁴
Green	G ⁴
Blue	L ⁴
Amber	M
Red	R
White	W

²Subtract \$4.20 from list price with no lens.

³Not suitable for use with LED.

⁴Not suitable for use with NEON light.



Typical wiring diagram for remote test of lights using dual input "remote test" lights.



Lamps: See pages 9-35
Nameplates: See pages 9-40 to 9-41
Technical Data: See pages 9-48 to 9-49

Drilling Plans and Dimensions: See page 9-49
Product Number Selection Instructions: See pages 9-2

Pilot and Signaling Devices

Heavy-Duty 30.5 mm Watertight/Oiltight Selector Switches

CR104P

Knob Operated
 Non-Illuminated
 600 Volts Max. AC/DC
 10 Amperes Continuous



Knob-Operated Selector Switch

Units are supplied factory-assembled when ordered with contact block.

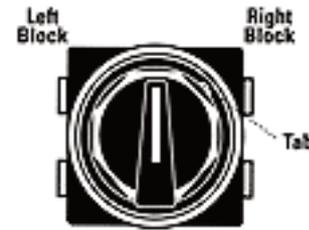
Product Number and price do not include nameplate. All nameplates must be ordered as a separate item.

Suitable for use in NEMA Type 1, 3, 3R, 4, 4X, 12, and 13 applications, when mounted in enclosures rated for those same applications. For some NEMA Type 4X applications, protective caps will improve corrosion resistance.

2-Position - Black Knob¹

Release Type	2 Position Cam Code	Contact Configuration	Product Number ¹	List Price GO-10P1
Maintained	1	None	CR104PSG21B	\$22.20
Maintained	1	1NO-1NC	CR104PSG21B91	\$40.20
Maintained	1	2NO-2NC	CR104PSG21B92	\$58.20
Spring Return L → C	2	None	CR104PSG12B	\$34.20
Spring Return L → C	2	1NO-1NC	CR104PSG12B91	\$52.20
Spring Return L → C	2	2NO-2NC	CR104PSG12B92	\$70.20
Spring Return R → C	3	None	CR104PSG63B	\$34.20
Spring Return R → C	3	1NO-1NC	CR104PSG63B91	\$52.20
Spring Return R → C	3	2NO-2NC	CR104PSG63B92	\$70.20

¹To order knob in a color other than black, replace the "B" in listed Product Numbers with E (Yellow), G (Green), L (Blue), or R (Red).



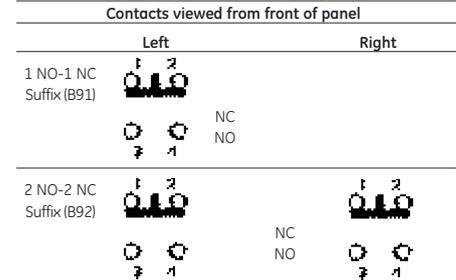
Contacts viewed from front of panel.

2-Position Selector Switches - Non-Illuminated

Operator Position	Cam #1		Cam #2		Cam #3		
	Type of Contact Block	Mounting Location Left/Right	Type of Contact Block	Mounting Location Left/Right	Type of Contact Block	Mounting Location Left/Right	
Contact State	O - X	NO	L or R	-	-	-	
	X - O	NC	L or R	-	-	-	
Contact State	X O -	-	-	NO	L or R	-	
	O X -	-	-	NC	L or R	-	
	- O X	-	-	-	-	NO	L or R
	- X O	-	-	-	-	NC	L or R

- : This position is nonexistent or is a "pass through".
 In the product number of a selector switch, the cam is identified by the fifth figure after the "104".
Example: CR104PSG2 1 B, the cam number is 1.

Schematic Diagrams - Factory Forms



Numbers and letters are molded into blocks at terminals.

3-Position - Black Knob¹ - Maintained

Release Type	3 Position Cam Code	Contact Configuration	Product Number ¹	List Price GO-10P1
Maintained	4	None	CR104PSG34B	\$22.20
Maintained	4	1NO-1NC	CR104PSG34B91	\$40.20
Maintained	4	2NO-2NC	CR104PSG34B92	\$58.20
Maintained	2	None	CR104PSG32B	\$22.20
Maintained	2	1NO-1NC	CR104PSG32B91	\$40.20
Maintained	2	2NO-2NC	CR104PSG32B92	\$58.20
Maintained	3	None	CR104PSG33B	\$22.20
Maintained	3	1NO-1NC	CR104PSG33B91	\$40.20
Maintained	3	2NO-2NC	CR104PSG33B92	\$58.20
Maintained	5	None	CR104PSG35B	\$22.20
Maintained	5	2NO-2NC	CR104PSG35B92	\$58.20
Maintained	6	None	CR104PSG36B	\$22.20
Maintained	6	2NO-2NC	CR104PSG36B92	\$58.20

3-Position - Black Knob¹ - Spring Return L C

Release Type	3 Position Cam Code	Contact Configuration	Product Number ¹	List Price GO-10P1
Spring Return L → C	4	None	CR104PSG74B	\$34.20
Spring Return L → C	4	1NO-1NC	CR104PSG74B91	\$52.20
Spring Return L → C	4	2NO-2NC	CR104PSG74B92	\$70.20
Spring Return L → C	2	None	CR104PSG72B	\$34.20
Spring Return L → C	2	1NO-1NC	CR104PSG72B91	\$52.20
Spring Return L → C	2	2NO-2NC	CR104PSG72B92	\$70.20
Spring Return L → C	3	None	CR104PSG73B	\$34.20
Spring Return L → C	3	1NO-1NC	CR104PSG73B91	\$52.20
Spring Return L → C	3	2NO-2NC	CR104PSG73B92	\$70.20
Spring Return L → C	5	None	CR104PSG75B	\$34.20
Spring Return L → C	5	2NO-2NC	CR104PSG75B92	\$70.20
Spring Return L → C	6	None	CR104PSG76B	\$34.20
Spring Return L → C	6	2NO-2NC	CR104PSG76B92	\$70.20

¹To order knob in a color other than black, replace the "B" in listed Product Numbers

3-Position Selector Switches - Non-Illuminated

Operator Position	Cam #4		Cam #2		Cam #3		Cam #5		Cam #6		
	Type of Contact Block	Mounting Location Left/Right	Type of Contact Block	Mounting Location Left/Right	Type of Contact Block	Mounting Location Left/Right	Type of Contact Block	Mounting Location Left/Right	Type of Contact Block	Mounting Location Left/Right	
Contact State	O O X	NO	L or R	-	-	NO	L or R	NO	L or R	NO	Left
	O X O	-	-	NC	L or R	NC	L or R	NC	Right	-	-
Contact State	X O O	NC	L or R	NO	L or R	-	-	NC	Left	NO	Right
	X X O	-	-	-	-	-	-	-	-	NC	Left
	O X X	-	-	-	-	-	-	-	-	-	Right
	O X X	-	-	-	-	-	-	-	-	NC	Right

In the product number of a selector switch, the cam is identified by the fifth figure after the "104".
Example: CR104PSG2 1 B, the cam number is 1.



Pilot and Signaling Devices Heavy-Duty 30.5 mm Watertight/Oiltight Selector Switches

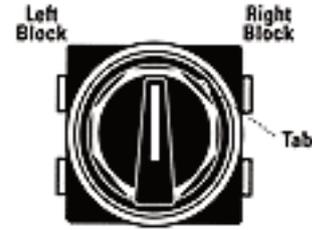
Section 9

CR104P

Knob Operated
Non-Illuminated
600 Volts Max. AC/DC
10 Amperes Continuous



Knob-Operated Selector Switch



Contacts viewed from front of panel.

Units are supplied factory-assembled when ordered with contact block.

Product Number and price do not include nameplate. All nameplates must be ordered as a separate item.

Suitable for use in NEMA Type 1, 3, 3R, 4, 4X, 12, and 13 applications., when mounted in enclosures rated for those same applications. For some NEMA Type 4X applications, protective caps will improve corrosion resistance.

3-Position - Black Knob¹ - Spring Return C R

Release Type	3 Position Cam Code	Contact Configuration	Product Number ¹	List Price GO-10P1
Spring Return C ← R	4	None	CR104PSG84B	\$34.20
Spring Return C ← R	4	1NO-1NC	CR104PSG84B91	\$52.20
Spring Return C ← R	4	2NO-2NC	CR104PSG84B92	\$70.20
Spring Return C ← R	2	None	CR104PSG82B	\$34.20
Spring Return C ← R	2	1NO-1NC	CR104PSG82B91	\$52.20
Spring Return C ← R	2	2NO-2NC	CR104PSG82B92	\$70.20
Spring Return C ← R	3	None	CR104PSG83B	\$34.20
Spring Return C ← R	3	1NO-1NC	CR104PSG83B91	\$52.20
Spring Return C ← R	3	2NO-2NC	CR104PSG83B92	\$70.20
Spring Return C ← R	5	None	CR104PSG85B	\$34.20
Spring Return C ← R	5	2NO-2NC	CR104PSG85B92	\$70.20
Spring Return C ← R	6	None	CR104PSG86B	\$34.20
Spring Return C ← R	6	2NO-2NC	CR104PSG86B92	\$70.20

3-Position - Black Knob¹ - Spring Return L C R

Release Type	3 Position Cam Code	Contact Configuration	Product Number ¹	List Price GO-10P1
Spring Return L → C ← R	4	None	CR104PSG94B	\$34.20
Spring Return L → C ← R	4	1NO-1NC	CR104PSG94B91	\$52.20
Spring Return L → C ← R	4	2NO-2NC	CR104PSG94B92	\$70.20
Spring Return L → C ← R	2	None	CR104PSG92B	\$34.20
Spring Return L → C ← R	2	1NO-1NC	CR104PSG92B91	\$52.20
Spring Return L → C ← R	2	2NO-2NC	CR104PSG92B92	\$70.20
Spring Return L → C ← R	3	None	CR104PSG93B	\$34.20
Spring Return L → C ← R	3	1NO-1NC	CR104PSG93B91	\$52.20
Spring Return L → C ← R	3	2NO-2NC	CR104PSG93B92	\$70.20
Spring Return L → C ← R	5	None	CR104PSG95B	\$34.20
Spring Return L → C ← R	5	2NO-2NC	CR104PSG95B92	\$70.20
Spring Return L → C ← R	6	None	CR104PSG96B	\$34.20
Spring Return L → C ← R	6	2NO-2NC	CR104PSG96B92	\$70.20

¹To order knob in a color other than black, replace the "B" in listed Product Numbers with E (Yellow), G (Green), L (Blue), or R (Red).

3-Position Selector Switches - Non-Illuminated

Operator Position	Cam #4		Cam #2		Cam #3		Cam #5		Cam #6	
	Type of Contact Block	Mounting Location Left/Right	Type of Contact Block	Mounting Location Left/Right	Type of Contact Block	Mounting Location Left/Right	Type of Contact Block	Mounting Location Left/Right	Type of Contact Block	Mounting Location Left/Right
O O X	NO	L or R	-	-	NO	L or R	NO	L or R	NO	Left
	O X O	-	NC	L or R	NC	L or R	NC	Right	-	-
X O O	NC	L or R	NO	L or R	-	-	NC	Left	NO	Right
	X X O	-	-	-	-	-	-	-	NC	Left
O X X	-	-	-	-	-	-	-	-	NC	Right

In the product number of a selector switch, the cam is identified by the fifth figure after the "104".
Example: CR104PSG2 1 B, the cam number is 1.

4-Position - Black Knob¹

Release Type	4 Position Cam Code	Contact Configuration	Product Number ¹	List Price GO-10P1
Maintained	7	None	CR104PSG47B ²	\$22.20
Maintained	7	2NO-2NC	CR104PSG47B92 ²	\$58.20

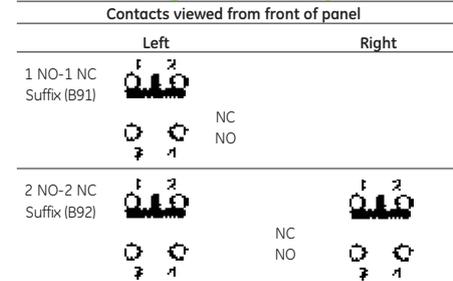
¹To order knob in a color other than black, replace the "B" in listed Product Numbers with E (Yellow), G (Green), L (Blue), or R (Red).

²Two double-circuit contact blocks, mounted side-by-side, is standard arrangement.
No more than two contact blocks, single and/or double, may be used with this operator.

4-Position Selector Switch - Non-Illuminated

Operator Position	Cam #7				
	Type of Contact Block	Mounting Location Left-Right			
Contact State	X O O O	NC	Left		
	O O X O	NO	Left		
	O O O X	NC	Right		
	O X O O	NO	Right		

Schematic Diagrams - Factory Forms



Numbers and letters are molded into blocks at terminals.



Nameplates: See pages 9-40 to 9-41
Technical Data: See pages 9-48 to 9-49
Drilling Plans and Dimensions: See page 9-49

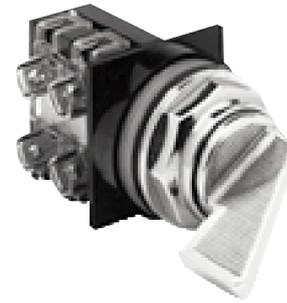
Product Number Selection Instructions: See pages 9-2

Pilot and Signaling Devices

Heavy-Duty 30.5 mm Watertight/Oiltight Selector Switches

CR104P

Lever Operated
 Non-Illuminated
 600 Volts Max. AC/DC
 10 Amperes Continuous



Lever-Operated Selector Switch

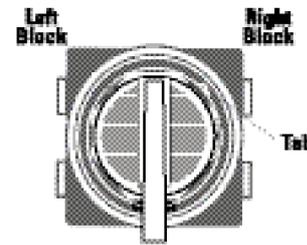
Units are supplied factory-assembled when ordered with contact block.

Product Number and price do not include nameplate. All nameplates must be ordered as a separate item.

Suitable for use in NEMA Type 1, 3, 3R, 4, 4X, 12, and 13 applications, when mounted in enclosures rated for those same applications. For some NEMA Type 4X applications, protective caps will improve corrosion resistance.

2-Position Chrome¹

Release Type	2 Position Cam Code	Contact Configuration	Product Number ¹	List Price GO-10P1
Maintained	1	None	CR104PSM21	\$22.20
Maintained	1	1NO-1NC	CR104PSM21A91	\$40.20
Maintained	1	2NO-2NC	CR104PSM21A92	\$58.20
Spring Return L → C	2	None	CR104PSM12	\$34.20
Spring Return L → C	2	1NO-1NC	CR104PSM12A91	\$52.20
Spring Return L → C	2	2NO-2NC	CR104PSM12A92	\$70.20
Spring Return R → C	3	None	CR104PSM63	\$34.20
Spring Return R → C	3	1NO-1NC	CR104PSM63A91	\$52.20
Spring Return R → C	3	2NO-2NC	CR104PSM63A92	\$70.20



Contacts viewed from front of panel.

¹To order black wing lever, replace "A" in Product Number with "B" before 91 or 92 contact digits. **Example:** the Product Number for a maintained, 1NO-1NC operator with black wing lever is CR104PSM21B91.

2-Position Selector Switches - Non-Illuminated

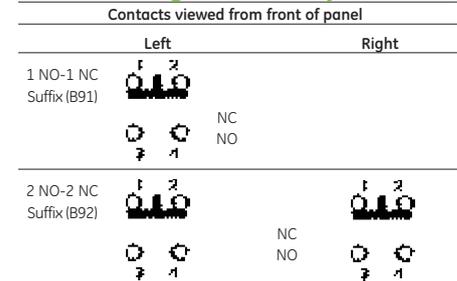
Operator Position	Cam #1		Cam #2		Cam #3	
	Type of Contact Block	Mounting Location Left/Right	Type of Contact Block	Mounting Location Left/Right	Type of Contact Block	Mounting Location Left/Right
O - X	NO	L or R	-	-	-	-
X - O	NC	L or R	-	-	-	-
Contact State	X O -	-	NO	L or R	-	-
	O X -	-	NC	L or R	-	-
	- O X	-	-	-	NO	L or R
	- X O	-	-	-	NC	L or R

- : This position is nonexistent or is a "pass through".

In the product number of a selector switch, the cam is identified by the fifth figure after the "104".

Example: CR104PSG2 1 B, the cam number is 1.

Schematic Diagrams - Factory Forms



Numbers and letters are molded into blocks at terminals.

3-Position Chrome¹ - Maintained

Release Type	3 Position Cam Code	Contact Configuration	Product Number ¹	List Price GO-10P1
Maintained	4	None	CR104PSM34	\$22.20
Maintained	4	1NO-1NC	CR104PSM34A91	\$40.20
Maintained	4	2NO-2NC	CR104PSM34A92	\$58.20
Maintained	2	None	CR104PSM32	\$22.20
Maintained	2	1NO-1NC	CR104PSM32A91	\$40.20
Maintained	2	2NO-2NC	CR104PSM32A92	\$58.20
Maintained	3	None	CR104PSM33	\$22.20
Maintained	3	1NO-1NC	CR104PSM33A91	\$40.20
Maintained	3	2NO-2NC	CR104PSM33A92	\$58.20
Maintained	5	None	CR104PSM35	\$22.20
Maintained	5	2NO-2NC	CR104PSM35A92	\$58.20
Maintained	6	None	CR104PSM36	\$22.20
Maintained	6	2NO-2NC	CR104PSM36A92	\$58.20

3-Position Chrome¹ - Spring Return L C

Release Type	3 Position Cam Code	Contact Configuration	Product Number ¹	List Price GO-10P1
Spring Return L → C	4	None	CR104PSM74	\$34.20
Spring Return L → C	4	1NO-1NC	CR104PSM74A91	\$52.20
Spring Return L → C	4	2NO-2NC	CR104PSM74A92	\$70.20
Spring Return L → C	2	None	CR104PSM72	\$34.20
Spring Return L → C	2	1NO-1NC	CR104PSM72A91	\$52.20
Spring Return L → C	2	2NO-2NC	CR104PSM72A92	\$70.20
Spring Return L → C	3	None	CR104PSM73	\$34.20
Spring Return L → C	3	1NO-1NC	CR104PSM73A91	\$52.20
Spring Return L → C	3	2NO-2NC	CR104PSM73A92	\$70.20
Spring Return L → C	5	None	CR104PSM75	\$34.20
Spring Return L → C	5	2NO-2NC	CR104PSM75A92	\$70.20
Spring Return L → C	6	None	CR104PSM76	\$34.20
Spring Return L → C	6	2NO-2NC	CR104PSM76A92	\$70.20

¹To order black wing lever, replace "A" in Product Number with "B" before 91 or 92 contact digits. **Example:** the Product Number for a maintained, 1NO-1NC operator

3-Position Selector Switches - Non-Illuminated

Operator Position	Cam #4		Cam #2		Cam #3		Cam #5		Cam #6	
	Type of Contact Block	Mounting Location Left/Right	Type of Contact Block	Mounting Location Left/Right	Type of Contact Block	Mounting Location Left/Right	Type of Contact Block	Mounting Location Left/Right	Type of Contact Block	Mounting Location Left/Right
O O X	NO	L or R	-	-	NO	L or R	NO	L or R	NO	Left
O X O	-	-	NC	L or R	NC	L or R	NC	Right	-	-
Contact State	X O O	NC	L or R	NO	L or R	-	NC	Left	NO	Right
	X X O	-	-	-	-	-	-	-	NC	Left
	O X X	-	-	-	-	-	-	-	NC	Right

In the product number of a selector switch, the cam is identified by the fifth figure after the "104".

Example: CR104PSG2 1 B, the cam number is 1.



Pilot and Signaling Devices Heavy-Duty 30.5 mm Watertight/Oiltight Selector Switches

Section 9

CR104P

Lever Operated
Non-Illuminated
600 Volts Max. AC/DC
10 Amperes Continuous

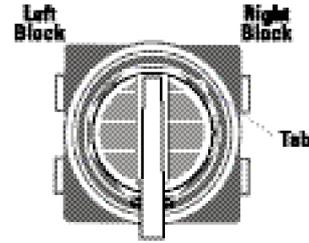
Units are supplied factory-assembled when ordered with contact block.

Product Number and price do not include nameplate. All nameplates must be ordered as a separate item.

Suitable for use in NEMA Type 1, 3, 3R, 4, 4X, 12, and 13 applications, when mounted in enclosures rated for those same applications. For some NEMA Type 4X applications, protective caps will improve corrosion resistance.



Lever-Operated Selector Switch



Contacts viewed from front of panel.

3-Position Chrome¹ - Spring Return C R

Release Type	3 Position Cam Code	Contact Configuration	Product Number ¹	List Price GO-10P1
Spring Return C ← R	4	None	CR104PSM84	\$34.20
Spring Return C ← R	4	1NO-1NC	CR104PSM84A91	\$52.20
Spring Return C ← R	4	2NO-2NC	CR104PSM84A92	\$70.20
Spring Return C ← R	2	None	CR104PSM82	\$34.20
Spring Return C ← R	2	1NO-1NC	CR104PSM82A91	\$52.20
Spring Return C ← R	2	2NO-2NC	CR104PSM82A92	\$70.20
Spring Return C ← R	3	None	CR104PSM83	\$34.20
Spring Return C ← R	3	1NO-1NC	CR104PSM83A91	\$52.20
Spring Return C ← R	3	2NO-2NC	CR104PSM83A92	\$70.20
Spring Return C ← R	5	None	CR104PSM85	\$34.20
Spring Return C ← R	5	2NO-2NC	CR104PSM85A92	\$70.20
Spring Return C ← R	6	None	CR104PSM86	\$34.20

3-Position Chrome¹ - Spring Return L C R

Release Type	3 Position Cam Code	Contact Configuration	Product Number ¹	List Price GO-10P1
Spring Return C ← R	6	2NO-2NC	CR104PSM86A92	\$70.20
Spring Return L → C ← R	4	None	CR104PSM94	\$34.20
Spring Return L → C ← R	4	1NO-1NC	CR104PSM94A91	\$52.20
Spring Return L → C ← R	4	2NO-2NC	CR104PSM94A92	\$70.20
Spring Return L → C ← R	2	None	CR104PSM92	\$34.20
Spring Return L → C ← R	2	1NO-1NC	CR104PSM92A91	\$52.20
Spring Return L → C ← R	2	2NO-2NC	CR104PSM92A92	\$70.20
Spring Return L → C ← R	3	None	CR104PSM93	\$34.20
Spring Return L → C ← R	3	1NO-1NC	CR104PSM93A91	\$52.20
Spring Return L → C ← R	3	2NO-2NC	CR104PSM93A92	\$70.20
Spring Return L → C ← R	5	None	CR104PSM95	\$34.20
Spring Return L → C ← R	5	2NO-2NC	CR104PSM95A92	\$70.20
Spring Return L → C ← R	6	None	CR104PSM96	\$34.20
Spring Return L → C ← R	6	2NO-2NC	CR104PSM96A92	\$70.20

¹To order black wing lever, replace "A" in Product Number with "B" before 91 or 92 contact digits. **Example:** the Product Number for a maintained, 1NO-1NC operator

3-Position Selector Switches - Non-Illuminated

Operator Position	Cam #4		Cam #2		Cam #3		Cam #5		Cam #6				
	Type of Contact Block	Mounting Location Left/Right	Type of Contact Block	Mounting Location Left/Right	Type of Contact Block	Mounting Location Left/Right	Type of Contact Block	Mounting Location Left/Right	Type of Contact Block	Mounting Location Left/Right			
Contact State	O	O	X	NO	L or R	-	-	NO	L or R	NO	L or R	NO	Left
	O	X	O	-	-	NC	L or R	NC	L or R	NC	Right	-	-
Contact State	X	O	O	NC	L or R	NO	L or R	-	-	NC	Left	NO	Right
	X	X	O	-	-	-	-	-	-	-	-	NC	Left
Contact State	O	X	X	-	-	-	-	-	-	-	-	NC	Right

In the product number of a selector switch, the cam is identified by the fifth figure after the "104".
Example: CR104PSG2 1 B, the cam number is 1.

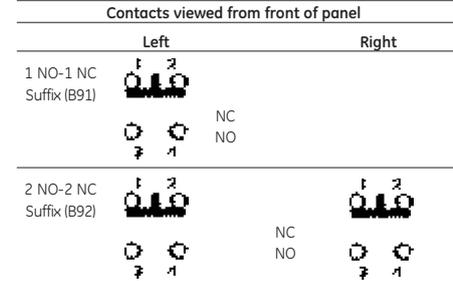
4-Position Chrome¹

Release Type	4 Position Cam Code	Contact Configuration	Product Number ¹	List Price GO-10P1
Maintained	7	None	CR104PSM47	\$22.20
Maintained	9	2NO-2NC	CR104PSM47A92	\$58.20

4-Position Selector Switch - Non-Illuminated

Operator Position	Cam #7				Type of Contact Block	Mounting Location Left-Right
	Type of Contact Block	Mounting Location Left-Right	Type of Contact Block	Mounting Location Left-Right		
Contact State	X	O	O	O	NC	Left
	O	O	X	O	NO	Left
	O	O	O	X	NC	Right
	O	X	O	O	NO	Right

Schematic Diagrams - Factory Forms



Numbers and letters are molded into blocks at terminals.



Nameplates: See pages 9-40 to 9-41
Technical Data: See pages 9-48 to 9-49
Drilling Plans and Dimensions: See page 9-49

Product Number Selection Instructions: See pages 9-2

Pilot and Signaling Devices

Heavy-Duty 30.5 mm Watertight/Oiltight Selector Switches

CR104P

Section 9

Key Operated
 Non-Illuminated
 600 Volts Max. AC/DC
 10 Amperes Continuous



Key Selector Switch

Units are supplied factory-assembled when ordered with contact blocks.

Product Number and price do not include nameplate. All nameplates must be ordered as a separate item. Two keys included with each cylinder lock.

Suitable for use in NEMA Type 1, 3, 3R, 4, 4X, 12, and 13 applications, when mounted in enclosures rated for those same applications. For some NEMA Type 4X applications, protective caps will improve corrosion resistance.

2-Position - Key Operated

Release Type	2 Position Cam Code	Contact Configuration	Key Removal	Product Number	List Price GO-10P1
Maintained	1	None	Left	CR104PSK21A00L	\$58.20
Maintained	1	None	Right	CR104PSK21A00R	\$58.20
Maintained	1	None	Left and Right	CR104PSK21A00M	\$58.20
Maintained	1	1NO-1NC	Left	CR104PSK21A91L	\$76.20
Maintained	1	1NO-1NC	Right	CR104PSK21A91R	\$76.20
Maintained	1	1NO-1NC	Left and Right	CR104PSK21A91M	\$76.20
Maintained	1	1NO-1NC	Left	CR104PSK21A91L51 ¹	\$88.20
Maintained	1	1NO-1NC	Right	CR104PSK21A91R51 ¹	\$88.20
Maintained	1	1NO-1NC	Left and Right	CR104PSK21A91M51 ¹	\$88.20
Maintained	1	2NO-2NC	Left	CR104PSK21A92L	\$94.20
Maintained	1	2NO-2NC	Right	CR104PSK21A92R	\$94.20
Maintained	1	2NO-2NC	Left and Right	CR104PSK21A92M	\$94.20
Spring Return L → C	2	None	Center	CR104PSK12A00C	\$70.20
Spring Return L → C	2	1NO-1NC	Center	CR104PSK12A91C	\$88.20
Spring Return L → C	2	1NO-1NC	Center	CR104PSK12A91C51 ¹	\$100.20
Spring Return L → C	2	2NO-2NC	Center	CR104PSK12A92C	\$106.20
Spring Return R → C	3	None	Center	CR104PSK63A00C	\$70.20
Spring Return R → C	3	1NO-1NC	Center	CR104PSK63A91C	\$88.20
Spring Return R → C	3	1NO-1NC	Center	CR104PSK63A91C51 ¹	\$100.20
Spring Return R → C	3	2NO-2NC	Center	CR104PSK63A92C	\$106.20

¹CH501 keyed cylinder lock. Other listed cylinder locks are alike and use identical keys. Dissimilar locks are also available; contact nearest GE Representative.

2-Position Selector Switches - Key Operated

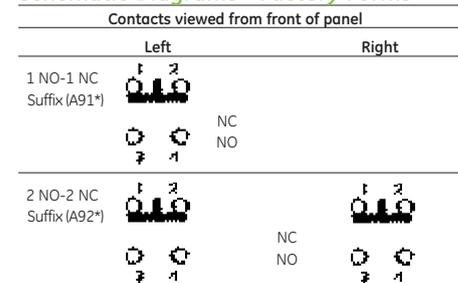
Operator Position	Cam #1		Cam #2		Cam #3	
	Type of Contact Block	Mounting Location Left/Right	Type of Contact Block	Mounting Location Left/Right	Type of Contact Block	Mounting Location Left/Right
O - X	NO	L or R	-	-	-	-
X - O	NC	L or R	-	-	-	-
X O -	-	-	NO	L or R	-	-
O X -	-	-	NC	L or R	-	-
- O X	-	-	-	-	NO	L or R
- X O	-	-	-	-	NC	L or R

- : This position is nonexistent or is a "pass through".

In the product number of a selector switch, the cam is identified by the fifth figure after the "104".

Example: CR104PSG2 1 B, the cam number is 1.

Schematic Diagrams - Factory Forms



Numbers and letters are molded into blocks at terminals.



Pilot and Signaling Devices

Heavy-Duty 30.5 mm Watertight/Oiltight Selector Switches

Section 9

CR104P

Key Operated
Non-Illuminated
600 Volts Max. AC/DC
10 Amperes Continuous



Key Selector Switch

Units are supplied factory-assembled when ordered with contact blocks.

Product Number and price do not include nameplate. All nameplates must be ordered as a separate item. Two keys included with each cylinder lock.

Suitable for use in NEMA Type 1, 3, 3R, 4, 4X, 12, and 13 applications, when mounted in enclosures rated for those same applications. For some NEMA Type 4X applications, protective caps will improve corrosion resistance.

3-Position Maintained - Key Operated

Release Type	3 Position Cam Code	Contact Configuration	Key Removal	Product Number	List Price GO-10P1
Maintained	4	None	Left	CR104PSK34A00L	\$58.20
Maintained	4	None	Center	CR104PSK34A00C	\$58.20
Maintained	4	None	Right	CR104PSK34A00R	\$58.20
Maintained	4	None	Left, Right, and Center	CR104PSK34A00W	\$58.20
Maintained	4	1NO-1NC	Left	CR104PSK34A91L	\$76.20
Maintained	4	1NO-1NC	Center	CR104PSK34A91C	\$76.20
Maintained	4	1NO-1NC	Right	CR104PSK34A91R	\$76.20
Maintained	4	1NO-1NC	Left, Right, and Center	CR104PSK34A91W	\$76.20
Maintained	4	1NO-1NC	Left	CR104PSK34A91L51 ¹	\$88.20
Maintained	4	1NO-1NC	Center	CR104PSK34A91C51 ¹	\$88.20
Maintained	4	1NO-1NC	Right	CR104PSK34A91R51 ¹	\$88.20
Maintained	4	1NO-1NC	Left, Right, and Center	CR104PSK34A91W51 ¹	\$88.20
Maintained	4	2NO-2NC	Left	CR104PSK34A92L	\$94.20
Maintained	4	2NO-2NC	Center	CR104PSK34A92C	\$94.20
Maintained	4	2NO-2NC	Right	CR104PSK34A92R	\$94.20
Maintained	4	2NO-2NC	Left, Right, and Center	CR104PSK34A92W	\$94.20
Maintained	2	None	Left	CR104PSK32A00L	\$58.20
Maintained	2	None	Center	CR104PSK32A00C	\$58.20
Maintained	2	None	Right	CR104PSK32A00R	\$58.20
Maintained	2	None	Left, Right, and Center	CR104PSK32A00W	\$58.20
Maintained	2	1NO-1NC	Left	CR104PSK32A91L	\$76.20
Maintained	2	1NO-1NC	Center	CR104PSK32A91C	\$76.20
Maintained	2	1NO-1NC	Right	CR104PSK32A91R	\$76.20
Maintained	2	1NO-1NC	Left, Right, and Center	CR104PSK32A91W	\$76.20
Maintained	2	2NO-2NC	Left	CR104PSK32A92L	\$94.20
Maintained	2	2NO-2NC	Center	CR104PSK32A92C	\$94.20
Maintained	2	2NO-2NC	Right	CR104PSK32A92R	\$94.20
Maintained	2	2NO-2NC	Left, Right, and Center	CR104PSK32A92W	\$94.20

¹CH501 keyed cylinder lock. Other listed cylinder locks are alike and use identical keys. Dissimilar locks are also available; contact nearest GE Representative.

3-Position Maintained - Key Operated (continued)

Release Type	3 Position Cam Code	Contact Configuration	Key Removal	Product Number ¹	List Price GO-10P1
Maintained	3	None	Left	CR104PSK33A00L	\$58.20
Maintained	3	None	Center	CR104PSK33A00C	\$58.20
Maintained	3	None	Right	CR104PSK33A00R	\$58.20
Maintained	3	None	Left, Right, and Center	CR104PSK33A00W	\$58.20
Maintained	3	1NO-1NC	Left	CR104PSK33A91L	\$76.20
Maintained	3	1NO-1NC	Center	CR104PSK33A91C	\$76.20
Maintained	3	1NO-1NC	Right	CR104PSK33A91R	\$76.20
Maintained	3	1NO-1NC	Left, Right, and Center	CR104PSK33A91W	\$76.20
Maintained	3	2NO-2NC	Left	CR104PSK33A92L	\$94.20
Maintained	3	2NO-2NC	Center	CR104PSK33A92C	\$94.20
Maintained	3	2NO-2NC	Right	CR104PSK33A92R	\$94.20
Maintained	3	2NO-2NC	Left, Right, and Center	CR104PSK33A92W	\$94.20
Maintained	5	None	Left	CR104PSK35A00L	\$58.20
Maintained	5	None	Center	CR104PSK35A00C	\$58.20
Maintained	5	None	Right	CR104PSK35A00R	\$58.20
Maintained	5	None	Left, Right, and Center	CR104PSK35A00W	\$58.20
Maintained	5	2NO-2NC	Left	CR104PSK35A92L	\$94.20
Maintained	5	2NO-2NC	Center	CR104PSK35A92C	\$94.20
Maintained	5	2NO-2NC	Right	CR104PSK35A92R	\$94.20
Maintained	5	2NO-2NC	Left, Right, and Center	CR104PSK35A92W	\$94.20
Maintained	6	None	Left	CR104PSK36A00L	\$58.20
Maintained	6	None	Center	CR104PSK36A00C	\$58.20
Maintained	6	None	Right	CR104PSK36A00R	\$58.20
Maintained	6	None	Left, Right, and Center	CR104PSK36A00W	\$58.20
Maintained	6	2NO-2NC	Left	CR104PSK36A92L	\$94.20
Maintained	6	2NO-2NC	Center	CR104PSK36A92C	\$94.20
Maintained	6	2NO-2NC	Right	CR104PSK36A92R	\$94.20
Maintained	6	2NO-2NC	Left, Right, and Center	CR104PSK36A92W	\$94.20

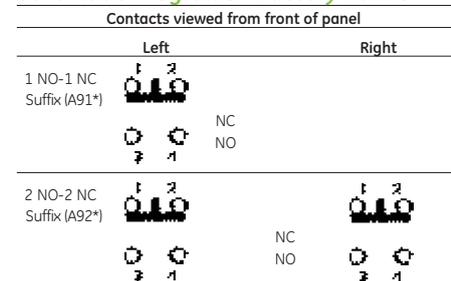
3-Position Selector Switches - Key Operated

Operator Position	Cam #4		Cam #2		Cam #3		Cam #5		Cam #6	
	Type of Contact Block	Mounting Location Left/Right	Type of Contact Block	Mounting Location Left/Right	Type of Contact Block	Mounting Location Left/Right	Type of Contact Block	Mounting Location Left/Right	Type of Contact Block	Mounting Location Left/Right
O O X	NO	L or R	-	-	NO	L or R	NO	L or R	NO	Left
O X O	-	-	NC	L or R	NC	L or R	NC	Right	-	-
X O O	NC	L or R	NO	L or R	-	-	NC	Left	NO	Right
X X O	-	-	-	-	-	-	-	-	NC	Left
O X X	-	-	-	-	-	-	-	-	NC	Right

In the product number of a selector switch, the cam is identified by the fifth figure after the "104".

Example: CR104PSG2 1 B, the cam number is 1.

Schematic Diagrams - Factory Forms



Numbers and letters are molded into blocks at terminals.



Extra Keys: See pages 9-39
Nameplates: See pages 9-40 to 9-41
Technical Data: See pages 9-48 to 9-49

Drilling Plans and Dimensions: See page 9-49
Product Number Selection Instructions: See pages 9-2

Pilot and Signaling Devices

Heavy-Duty 30.5 mm Watertight/Oiltight Selector Switches

Section 9

CR104P

Key Operated
Non-Illuminated
600 Volts Max. AC/DC
10 Amperes Continuous



Key Selector Switch

Units are supplied factory-assembled when ordered with contact blocks.

Product Number and price do not include nameplate. All nameplates must be ordered as a separate item. Two keys included with each cylinder lock.

Suitable for use in NEMA Type 1, 3, 3R, 4, 4X, 12, and 13 applications, when mounted in enclosures rated for those same applications. For some NEMA Type 4X applications, protective caps will improve corrosion resistance.

3-Position - Key Operated Spring Return L C

Release Type	3 Position Cam Code	Contact Configuration	Key Removal	Product Number	List Price GO-10P1
Spring Return L → C	4	None	Center	CR104PSK74A00C	\$70.20
Spring Return L → C	4	None	Right	CR104PSK74A00R	\$70.20
Spring Return L → C	4	None	Center and Right	CR104PSK74A00Q	\$70.20
Spring Return L → C	4	1NO-1NC	Center	CR104PSK74A91C	\$88.20
Spring Return L → C	4	1NO-1NC	Right	CR104PSK74A91R	\$88.20
Spring Return L → C	4	1NO-1NC	Center and Right	CR104PSK74A91Q	\$88.20
Spring Return L → C	4	1NO-1NC	Center	CR104PSK74A91C51 ¹	\$106.20
Spring Return L → C	4	2NO-2NC	Center	CR104PSK74A92C	\$106.20
Spring Return L → C	4	2NO-2NC	Right	CR104PSK74A92R	\$106.20
Spring Return L → C	4	2NO-2NC	Center and Right	CR104PSK74A92Q	\$106.20
Spring Return L → C	2	None	Center	CR104PSK72A00C	\$70.20
Spring Return L → C	2	None	Right	CR104PSK72A00R	\$70.20
Spring Return L → C	2	None	Center and Right	CR104PSK72A00Q	\$70.20
Spring Return L → C	2	1NO-1NC	Center	CR104PSK72A91C	\$88.20
Spring Return L → C	2	1NO-1NC	Right	CR104PSK72A91R	\$88.20
Spring Return L → C	2	1NO-1NC	Center and Right	CR104PSK72A91Q	\$88.20
Spring Return L → C	2	2NO-2NC	Center	CR104PSK72A92C	\$106.20
Spring Return L → C	2	2NO-2NC	Right	CR104PSK72A92R	\$106.20
Spring Return L → C	2	2NO-2NC	Center and Right	CR104PSK72A92Q	\$106.20

¹CH501 keyed cylinder lock. Other listed cylinder locks are alike and use identical keys. Dissimilar locks are also available; contact nearest GE Representative.

3-Position - Key Operated Spring Return L C (continued)

Release Type	3 Position Cam Code	Contact Configuration	Key Removal	Product Number	List Price GO-10P1
Spring Return L → C	3	None	Center	CR104PSK73A00C	\$70.20
Spring Return L → C	3	None	Right	CR104PSK73A00R	\$70.20
Spring Return L → C	3	None	Center and Right	CR104PSK73A00Q	\$70.20
Spring Return L → C	3	1NO-1NC	Center	CR104PSK73A91C	\$88.20
Spring Return L → C	3	1NO-1NC	Right	CR104PSK73A91R	\$88.20
Spring Return L → C	3	1NO-1NC	Center and Right	CR104PSK73A91Q	\$88.20
Spring Return L → C	3	2NO-2NC	Center	CR104PSK73A92C	\$106.20
Spring Return L → C	3	2NO-2NC	Right	CR104PSK73A92R	\$106.20
Spring Return L → C	3	2NO-2NC	Center and Right	CR104PSK73A92Q	\$106.20
Spring Return L → C	5	None	Center	CR104PSK75A00C	\$70.20
Spring Return L → C	5	None	Right	CR104PSK75A00R	\$70.20
Spring Return L → C	5	None	Center and Right	CR104PSK75A00Q	\$70.20
Spring Return L → C	5	2NO-2NC	Center	CR104PSK75A92C	\$70.20
Spring Return L → C	5	2NO-2NC	Right	CR104PSK75A92R	\$70.20
Spring Return L → C	5	2NO-2NC	Center and Right	CR104PSK75A92Q	\$70.20
Spring Return L → C	6	None	Center	CR104PSK76A00C	\$70.20
Spring Return L → C	6	None	Right	CR104PSK76A00R	\$70.20
Spring Return L → C	6	None	Center and Right	CR104PSK76A00Q	\$70.20
Spring Return L → C	6	2NO-2NC	Center	CR104PSK76A92C	\$106.20
Spring Return L → C	6	2NO-2NC	Right	CR104PSK76A92R	\$106.20
Spring Return L → C	6	2NO-2NC	Center and Right	CR104PSK76A92Q	\$106.20

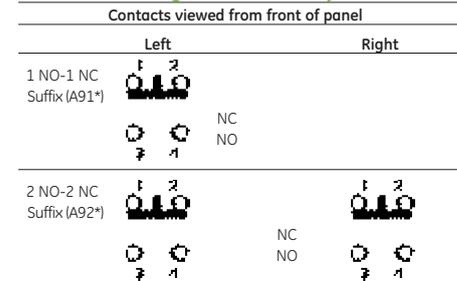
3-Position Selector Switches - Key Operated

Operator Position	Cam #4		Cam #2		Cam #3		Cam #5		Cam #6	
	Type of Contact Block	Mounting Location Left/Right	Type of Contact Block	Mounting Location Left/Right	Type of Contact Block	Mounting Location Left/Right	Type of Contact Block	Mounting Location Left/Right	Type of Contact Block	Mounting Location Left/Right
O	O	X	NO	L or R	-	-	NO	L or R	NO	L or R
O	X	O	-	-	NC	L or R	NC	L or R	NC	Right
X	O	O	NC	L or R	NO	L or R	-	-	NC	Left
X	X	O	-	-	-	-	-	-	-	NC
O	X	X	-	-	-	-	-	-	-	NC

In the product number of a selector switch, the cam is identified by the fifth figure after the "104".

Example: CR104PSG2 1 B, the cam number is 1.

Schematic Diagrams - Factory Forms



Numbers and letters are molded into blocks at terminals.



Pilot and Signaling Devices Heavy-Duty 30.5 mm Watertight/Oiltight Selector Switches

Section 9

CR104P

Key Operated
Non-Illuminated
600 Volts Max. AC/DC
10 Amperes Continuous



Key Selector Switch

Units are supplied factory-assembled when ordered with contact blocks.

Product Number and price do not include nameplate. All nameplates must be ordered as a separate item. Two keys included with each cylinder lock.

Suitable for use in NEMA Type 1, 3, 3R, 4, 4X, 12, and 13 applications, when mounted in enclosures rated for those same applications. For some NEMA Type 4X applications, protective caps will improve corrosion resistance.

3-Position - Key Operated Spring Return C R

Release Type	3 Position			Product Number	List Price GO-10P1
	Cam Code	Contact Configuration	Key Removal		
Spring Return C ← R	4	None	Left	CR104PSK84A00L	\$70.20
Spring Return C ← R	4	None	Center	CR104PSK84A00C	\$70.20
Spring Return C ← R	4	None	Left and Center	CR104PSK84A00D	\$70.20
Spring Return C ← R	4	1NO-1NC	Left	CR104PSK84A91L	\$88.20
Spring Return C ← R	4	1NO-1NC	Center	CR104PSK84A91C	\$88.20
Spring Return C ← R	4	1NO-1NC	Left and Center	CR104PSK84A91D	\$88.20
Spring Return C ← R	4	1NO-1NC	Center	CR104PSK84A91C5 ¹	\$100.20
Spring Return C ← R	4	2NO-2NC	Left	CR104PSK84A92L	\$106.20
Spring Return C ← R	4	2NO-2NC	Center	CR104PSK84A92C	\$106.20
Spring Return C ← R	4	2NO-2NC	Left and Center	CR104PSK84A92D	\$106.20
Spring Return C ← R	2	None	Left	CR104PSK82A00L	\$70.20
Spring Return C ← R	2	None	Center	CR104PSK82A00C	\$70.20
Spring Return C ← R	2	None	Left and Center	CR104PSK82A00D	\$70.20
Spring Return C ← R	2	1NO-1NC	Left	CR104PSK82A91L	\$88.20
Spring Return C ← R	2	1NO-1NC	Center	CR104PSK82A91C	\$88.20
Spring Return C ← R	2	1NO-1NC	Left and Center	CR104PSK82A91D	\$88.20
Spring Return C ← R	2	2NO-2NC	Left	CR104PSK82A92L	\$106.20
Spring Return C ← R	2	2NO-2NC	Center	CR104PSK82A92C	\$106.20
Spring Return C ← R	2	2NO-2NC	Left and Center	CR104PSK82A92D	\$106.20
Spring Return C ← R	3	None	Left	CR104PSK83A00L	\$70.20
Spring Return C ← R	3	None	Center	CR104PSK83A00C	\$70.20
Spring Return C ← R	3	None	Left and Center	CR104PSK83A00D	\$70.20
Spring Return C ← R	3	1NO-1NC	Left	CR104PSK83A91L	\$88.20
Spring Return C ← R	3	1NO-1NC	Center	CR104PSK83A91C	\$88.20
Spring Return C ← R	3	1NO-1NC	Left and Center	CR104PSK83A91D	\$88.20
Spring Return C ← R	3	2NO-2NC	Left	CR104PSK83A92L	\$106.20
Spring Return C ← R	3	2NO-2NC	Center	CR104PSK83A92C	\$106.20
Spring Return C ← R	3	2NO-2NC	Left and Center	CR104PSK83A92D	\$106.20
Spring Return C ← R	5	None	Left	CR104PSK85A00L	\$70.20
Spring Return C ← R	5	None	Center	CR104PSK85A00C	\$70.20
Spring Return C ← R	5	None	Left and Center	CR104PSK85A00D	\$70.20
Spring Return C ← R	5	2NO-2NC	Left	CR104PSK85A92L	\$106.20
Spring Return C ← R	5	2NO-2NC	Center	CR104PSK85A92C	\$106.20
Spring Return C ← R	5	2NO-2NC	Left and Center	CR104PSK85A92D	\$106.20
Spring Return C ← R	6	None	Left	CR104PSK86A00L	\$70.20
Spring Return C ← R	6	None	Center	CR104PSK86A00C	\$70.20
Spring Return C ← R	6	None	Left and Center	CR104PSK86A00D	\$70.20
Spring Return C ← R	6	2NO-2NC	Left	CR104PSK86A92L	\$106.20
Spring Return C ← R	6	2NO-2NC	Center	CR104PSK86A92C	\$106.20
Spring Return C ← R	6	2NO-2NC	Left and Center	CR104PSK86A92D	\$106.20

¹CH501 keyed cylinder lock. Other listed cylinder locks are alike and use identical keys. Dissimilar locks are also available; contact nearest GE Representative.

3-Position - Key Operated Spring Return L C R

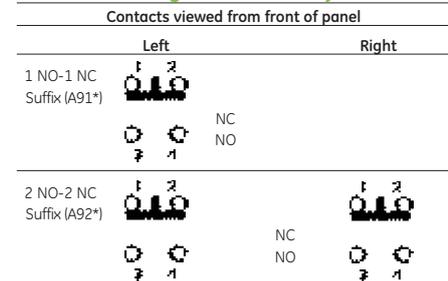
Release Type	3 Position			Product Number	List Price GO-10P1
	Cam Code	Contact Configuration	Key Removal		
Spring Return L → C ← R	4	None	Center	CR104PSK94A00C	\$70.20
Spring Return L → C ← R	4	1NO-1NC	Center	CR104PSK94A91C	\$88.20
Spring Return L → C ← R	4	1NO-1NC	Center	CR104PSK94A91C5 ¹	\$100.20
Spring Return L → C ← R	4	2NO-2NC	Center	CR104PSK94A92C	\$106.20
Spring Return L → C ← R	2	None	Center	CR104PSK92A00C	\$70.20
Spring Return L → C ← R	2	1NO-1NC	Center	CR104PSK92A91C	\$88.20
Spring Return L → C ← R	2	2NO-2NC	Center	CR104PSK92A92C	\$106.20
Spring Return L → C ← R	3	None	Center	CR104PSK93A00C	\$70.20
Spring Return L → C ← R	3	1NO-1NC	Center	CR104PSK93A91C	\$88.20
Spring Return L → C ← R	3	2NO-2NC	Center	CR104PSK93A92C	\$106.20
Spring Return L → C ← R	5	None	Center	CR104PSK95A00C	\$70.20
Spring Return L → C ← R	5	2NO-2NC	Center	CR104PSK95A92C	\$106.20
Spring Return L → C ← R	6	None	Center	CR104PSK96A00C	\$70.20
Spring Return L → C ← R	6	2NO-2NC	Center	CR104PSK96A92C	\$106.20

3-Position Selector Switches - Key Operated

Operator Position	Cam #4		Cam #2		Cam #3		Cam #5		Cam #6	
	Type of Contact Block	Mounting Location Left/Right	Type of Contact Block	Mounting Location Left/Right	Type of Contact Block	Mounting Location Left/Right	Type of Contact Block	Mounting Location Left/Right	Type of Contact Block	Mounting Location Left/Right
O O X	NO	L or R	-	-	NO	L or R	NO	L or R	NO	Left
O X O	-	-	NC	L or R	NC	L or R	NC	Right	-	-
X O O	NC	L or R	NO	L or R	-	-	NC	Left	NO	Right
X X O	-	-	-	-	-	-	-	-	NC	Left
O X X	-	-	-	-	-	-	-	-	NC	Right

In the product number of a selector switch, the cam is identified by the fifth figure after the "104".
Example: CR104PSG2 1 B, the cam number is 1.

Schematic Diagrams - Factory Forms



Numbers and letters are molded into blocks at terminals.



Extra Keys: See pages 9-39
Nameplates: See pages 9-40 to 9-41
Technical Data: See pages 9-48 to 9-49

Drilling Plans and Dimensions: See page 9-49
Product Number Selection Instructions: See pages 9-2

Pilot and Signaling Devices

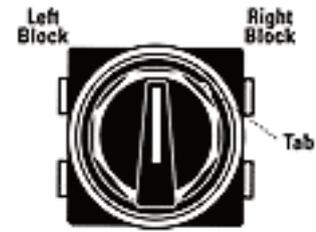
Heavy-Duty 30.5 mm Watertight/Oiltight Selector Switches

CR104P

Knob Operated
Illuminated
600 Volts Max. AC/DC
10 Amperes Continuous



Knob Operated



Contacts viewed from front of panel.

Units are supplied factory-assembled when ordered with contact blocks.

Product Number and price do not include nameplate. All nameplates must be ordered as a separate item.

Resistor forms of 2-position and 3-position illuminated selector switches are available.

Contact nearest GE Representative for proper selection and pricing.

Suitable for use in NEMA Type 1, 3, 3R, 4, 4X, 12, and 13 applications, when mounted in enclosures rated for those same applications. For some NEMA Type 4X applications, protective caps will improve corrosion resistance.

2-Position - Maintained

2 Position Cam Code	Contact Configuration	Power Supply Type	Input Voltage	Lamp Type ²	Color	Product Number	List Price GO-10P1
1	None	Transformer	120V	Incand., 6V, #755	Red	CR104PST21R00S2	\$70.20
1	None	Transformer	120V	Incand., 6V, #755	Green	CR104PST21G00S2	\$70.20
1	None	Transformer	120V	Incand., 6V, #755	Yellow	CR104PST21E00S2	\$70.20
1	None	Transformer	120V	Incand., 6V, #755	No Lens	CR104PST21A00S2 ¹	\$66.00
1	1NO-1NC	Transformer	120V	Incand., 6V, #755	Red	CR104PST21R11S2	\$88.20
1	1NO-1NC	Transformer	120V	Incand., 6V, #755	Green	CR104PST21G11S2	\$88.20
1	1NO-1NC	Transformer	120V	Incand., 6V, #755	Yellow	CR104PST21E11S2	\$88.20
1	1NO-1NC	Transformer	120V	Incand., 6V, #755	No Lens	CR104PST21A11S2 ¹	\$84.00
1	None	Transformer	240V	Incand., 6V, #755	Red	CR104PST21R00S3	\$70.20
1	None	Transformer	240V	Incand., 6V, #755	Green	CR104PST21G00S3	\$70.20
1	None	Transformer	240V	Incand., 6V, #755	Yellow	CR104PST21E00S3	\$70.20
1	None	Transformer	240V	Incand., 6V, #755	No Lens	CR104PST21A00S3 ¹	\$66.00
1	1NO-1NC	Transformer	240V	Incand., 6V, #755	Red	CR104PST21R11S3	\$88.20
1	1NO-1NC	Transformer	240V	Incand., 6V, #755	Green	CR104PST21G11S3	\$88.20
1	1NO-1NC	Transformer	240V	Incand., 6V, #755	Yellow	CR104PST21E11S3	\$88.20
1	1NO-1NC	Transformer	240V	Incand., 6V, #755	No Lens	CR104PST21A11S3 ¹	\$84.00
1	None	Full Voltage	6V	Incand., 6V, #755	Red	CR104PSL21R00S6	\$58.20
1	None	Full Voltage	6V	Incand., 6V, #755	Green	CR104PSL21G00S6	\$58.20
1	None	Full Voltage	6V	Incand., 6V, #755	Yellow	CR104PSL21E00S6	\$58.20
1	None	Full Voltage	6V	Incand., 6V, #755	No Lens	CR104PSL21A00S6 ¹	\$54.00
1	1NO-1NC	Full Voltage	6V	Incand., 6V, #755	Red	CR104PSL21R11S6	\$76.20
1	1NO-1NC	Full Voltage	6V	Incand., 6V, #755	Green	CR104PSL21G11S6	\$76.20
1	1NO-1NC	Full Voltage	6V	Incand., 6V, #755	Yellow	CR104PSL21E11S6	\$76.20
1	1NO-1NC	Full Voltage	6V	Incand., 6V, #755	No Lens	CR104PSL21A11S6 ¹	\$72.00
1	None	Full Voltage	24V	Incand., 24V, #1819	Red	CR104PSL21R00S8	\$58.20
1	None	Full Voltage	24V	Incand., 24V, #1819	Green	CR104PSL21G00S8	\$58.20
1	None	Full Voltage	24V	Incand., 24V, #1819	Yellow	CR104PSL21E00S8	\$58.20
1	None	Full Voltage	24V	Incand., 24V, #1819	No Lens	CR104PSL21A00S8 ¹	\$54.00
1	1NO-1NC	Full Voltage	24V	Incand., 24V, #1819	Red	CR104PSL21R11S8	\$76.20
1	1NO-1NC	Full Voltage	24V	Incand., 24V, #1819	Green	CR104PSL21G11S8	\$76.20
1	1NO-1NC	Full Voltage	24V	Incand., 24V, #1819	Yellow	CR104PSL21E11S8	\$76.20
1	1NO-1NC	Full Voltage	24V	Incand., 24V, #1819	No Lens	CR104PSL21A11S8 ¹	\$72.00
1	None	Full Voltage	120V	Incand., 130V	Red	CR104PSL21R00S2	\$58.20
1	None	Full Voltage	120V	Incand., 130V	Green	CR104PSL21G00S2	\$58.20
1	None	Full Voltage	120V	Incand., 130V	Yellow	CR104PSL21E00S2	\$58.20
1	None	Full Voltage	120V	Incand., 130V	No Lens	CR104PSL21A00S2 ¹	\$54.00
1	1NO-1NC	Full Voltage	120V	Incand., 130V	Red	CR104PSL21R11S2	\$76.20
1	1NO-1NC	Full Voltage	120V	Incand., 130V	Green	CR104PSL21G11S2	\$76.20
1	1NO-1NC	Full Voltage	120V	Incand., 130V	Yellow	CR104PSL21E11S2	\$76.20
1	1NO-1NC	Full Voltage	120V	Incand., 130V	No Lens	CR104PSL21A11S2 ¹	\$72.00

¹Select required lens from page 9-36 and order as separate item. To order assembled units with lens colors not listed above, substitute the following letters in place of "A" in Product Number: L (Blue), M (Amber), W (White), or C (Clear). Price is same as for units with lenses of listed colors.

²All lamps miniature bayonet base.

2-Position Selector Switches - Illuminated

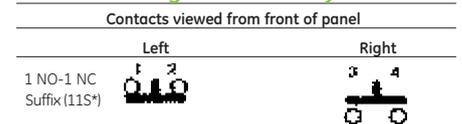
Operator Position	Cam #1	
	Type of Contact Block	Mounting Location Left/Right
	NO	Right
Contact State O - X X - O	NC	Left

-- : This position is a "pass through".

In the product number of a selector switch, the cam is identified by the fifth figure after the "104".

Example: CR104PSG2 1 B, the cam number is 1.

Schematic Diagrams - Factory Forms



Numbers and letters are molded into blocks at terminals.

*Voltage digit.



Pilot and Signaling Devices

Heavy-Duty 30.5 mm Watertight/Oiltight Selector Switches

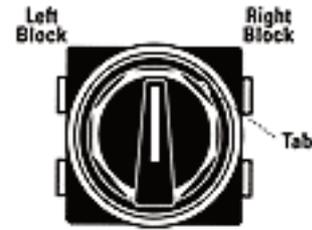
Section 9

CR104P

Knob Operated
Illuminated
600 Volts Max. AC/DC
10 Amperes Continuous



Transformer



Contacts viewed from front of panel.

Units are supplied factory-assembled when ordered with contact blocks.

Product Number and price do not include nameplate. All nameplates must be ordered as a separate item.

Resistor forms of 2-position and 3-position illuminated selector switches are available. Contact nearest GE Representative for proper selection and pricing.

Suitable for use in NEMA Type 1, 3, 3R, 4, 4X, 12, and 13 applications, when mounted in enclosures rated for those same applications. For some NEMA Type 4X applications, protective caps will improve corrosion resistance.

3-Position Maintained Transformer Type

3 Position Cam Code	Contact Configuration	Input Voltage	Lamp Type ²	Color	Product Number	List Price GO-10P1
4	None	120V	Incand., 6V, #755	Red	CR104PST34R00S2	\$70.20
4	None	120V	Incand., 6V, #755	Green	CR104PST34G00S2	\$70.20
4	None	120V	Incand., 6V, #755	Yellow	CR104PST34E00S2	\$70.20
4	None	120V	Incand., 6V, #755	No Lens	CR104PST34A00S2 ¹	\$66.00
4	1NO-1NC	120V	Incand., 6V, #755	Red	CR104PST34R11S2	\$88.20
4	1NO-1NC	120V	Incand., 6V, #755	Green	CR104PST34G11S2	\$88.20
4	1NO-1NC	120V	Incand., 6V, #755	Yellow	CR104PST34E11S2	\$88.20
4	1NO-1NC	120V	Incand., 6V, #755	No Lens	CR104PST34A11S2 ¹	\$84.00
4	None	240V	Incand., 6V, #755	Red	CR104PST34R00S3	\$70.20
4	None	240V	Incand., 6V, #755	Green	CR104PST34G00S3	\$70.20
4	None	240V	Incand., 6V, #755	Yellow	CR104PST34E00S3	\$70.20
4	None	240V	Incand., 6V, #755	No Lens	CR104PST34A00S3 ¹	\$66.00
4	1NO-1NC	240V	Incand., 6V, #755	Red	CR104PST34R11S3	\$88.20
4	1NO-1NC	240V	Incand., 6V, #755	Green	CR104PST34G11S3	\$88.20
4	1NO-1NC	240V	Incand., 6V, #755	Yellow	CR104PST34E11S3	\$88.20
4	1NO-1NC	240V	Incand., 6V, #755	No Lens	CR104PST34A11S3 ¹	\$84.00
2	None	120V	Incand., 6V, #755	Red	CR104PST32R00S2	\$70.20
2	None	120V	Incand., 6V, #755	Green	CR104PST32G00S2	\$70.20
2	None	120V	Incand., 6V, #755	Yellow	CR104PST32E00S2	\$70.20
2	None	120V	Incand., 6V, #755	No Lens	CR104PST32A00S2 ¹	\$66.00
2	1NO-1NC	120V	Incand., 6V, #755	Red	CR104PST32R11S2	\$88.20
2	1NO-1NC	120V	Incand., 6V, #755	Green	CR104PST32G11S2	\$88.20
2	1NO-1NC	120V	Incand., 6V, #755	Yellow	CR104PST32E11S2	\$88.20
2	1NO-1NC	120V	Incand., 6V, #755	No Lens	CR104PST32A11S2 ¹	\$84.00
2	None	240V	Incand., 6V, #755	Red	CR104PST32R00S3	\$70.20
2	None	240V	Incand., 6V, #755	Green	CR104PST32G00S3	\$70.20
2	None	240V	Incand., 6V, #755	Yellow	CR104PST32E00S3	\$70.20
2	None	240V	Incand., 6V, #755	No Lens	CR104PST32A00S3 ¹	\$66.00
2	1NO-1NC	240V	Incand., 6V, #755	Red	CR104PST32R11S3	\$88.20
2	1NO-1NC	240V	Incand., 6V, #755	Green	CR104PST32G11S3	\$88.20
2	1NO-1NC	240V	Incand., 6V, #755	Yellow	CR104PST32E11S3	\$88.20
2	1NO-1NC	240V	Incand., 6V, #755	No Lens	CR104PST32A11S3 ¹	\$84.00

3-Position Maintained Transformer Type (continued)

3 Position Cam Code	Contact Configuration	Input Voltage	Lamp Type ²	Color	Product Number	List Price GO-10P1
6	None	120V	Incand., 6V, #755	Red	CR104PST36R00S2	\$70.20
6	None	120V	Incand., 6V, #755	Green	CR104PST36G00S2	\$70.20
6	None	120V	Incand., 6V, #755	Yellow	CR104PST36E00S2	\$70.20
6	None	120V	Incand., 6V, #755	No Lens	CR104PST36A00S2 ¹	\$66.00
6	1NO-1NC	120V	Incand., 6V, #755	Red	CR104PST36R11S2	\$88.20
6	1NO-1NC	120V	Incand., 6V, #755	Green	CR104PST36G11S2	\$88.20
6	1NO-1NC	120V	Incand., 6V, #755	Yellow	CR104PST36E11S2	\$88.20
6	1NO-1NC	120V	Incand., 6V, #755	No Lens	CR104PST36A11S2 ¹	\$84.00
6	None	240V	Incand., 6V, #755	Red	CR104PST36R00S3	\$70.20
6	None	240V	Incand., 6V, #755	Green	CR104PST36G00S3	\$70.20
6	None	240V	Incand., 6V, #755	Yellow	CR104PST36E00S3	\$70.20
6	None	240V	Incand., 6V, #755	No Lens	CR104PST36A00S3 ¹	\$66.00
6	1NO-1NC	240V	Incand., 6V, #755	Red	CR104PST36R11S3	\$88.20
6	1NO-1NC	240V	Incand., 6V, #755	Green	CR104PST36G11S3	\$88.20
6	1NO-1NC	240V	Incand., 6V, #755	Yellow	CR104PST36E11S3	\$88.20
6	1NO-1NC	240V	Incand., 6V, #755	No Lens	CR104PST36A11S3 ¹	\$84.00

¹Select required lens from page 9-36 and order as separate item. To order assembled units with lens colors not listed above, substitute the following letters in place of "A" in Product Number: L (Blue), M (Amber), W (White), or C (Clear). Price is same as for units with lenses of listed colors.

²All lamps miniature bayonet base.

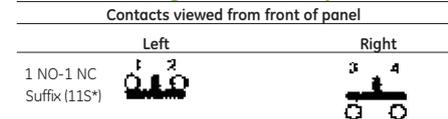
3-Position Selector Switches - Illuminated

Operator Position	Cam #2		Cam #4		Cam #6	
	Type of Contact Block	Mounting Location Left/Right	Type of Contact Block	Mounting Location Left/Right	Type of Contact Block	Mounting Location Left/Right
O O X	-	-	NO	Right	-	-
O X O	NC	Left	-	-	-	-
X O O	NO	Right	NC	Left	NO	Right
X X O	-	-	-	-	NC	Left
O X X	-	-	-	-	-	-

In the product number of a selector switch, the cam is identified by the fifth figure after the "104".

Example: CR104PSG2 1 B, the cam number is 1.

Schematic Diagrams - Factory Forms



Numbers and letters are molded into blocks at terminals.

*Voltage digit.



Lamps: See pages 9-35
Nameplates: See pages 9-40 to 9-41
Technical Data: See pages 9-48 to 9-49

Drilling Plans and Dimensions: See page 9-49
Product Number Selection Instructions: See pages 9-2

Pilot and Signaling Devices

Heavy-Duty 30.5 mm Watertight/Oiltight Selector Switches

Section 9

CR104P

Knob Operated
Illuminated
600 Volts Max. AC/DC
10 Amperes Continuous

Units are supplied factory-assembled when ordered with contact blocks.

Product Number and price do not include nameplate. All nameplates must be ordered as a separate item.

Resistor forms of 2-position and 3-position illuminated selector switches are available. Contact nearest GE Representative for proper selection and pricing.

Suitable for use in NEMA Type 1, 3, 3R, 4, 4X, 12, and 13 applications, when mounted in enclosures rated for those same applications. For some NEMA Type 4X applications, protective caps will improve corrosion resistance.

3-Position Maintained Full Voltage Type

3 Position Cam Code	Contact Configuration	Input Voltage	Lamp Type ²	Color	Product Number	List Price GO-10P1
4	None	6V	Incand., 6V, #755	Red	CR104PSL34R00S6	\$58.20
4	None	6V	Incand., 6V, #755	Green	CR104PSL34G00S6	\$58.20
4	None	6V	Incand., 6V, #755	Yellow	CR104PSL34E00S6	\$58.20
4	None	6V	Incand., 6V, #755	No Lens	CR104PSL34A00S6 ¹	\$54.00
4	1NO-1NC	6V	Incand., 6V, #755	Red	CR104PSL34R11S6	\$76.20
4	1NO-1NC	6V	Incand., 6V, #755	Green	CR104PSL34G11S6	\$76.20
4	1NO-1NC	6V	Incand., 6V, #755	Yellow	CR104PSL34E11S6	\$76.20
4	1NO-1NC	6V	Incand., 6V, #755	No Lens	CR104PSL34A11S6 ¹	\$72.00
4	None	24V	Incand., 24V, #1819	Red	CR104PSL34R00S8	\$58.20
4	None	24V	Incand., 24V, #1819	Green	CR104PSL34G00S8	\$58.20
4	None	24V	Incand., 24V, #1819	Yellow	CR104PSL34E00S8	\$58.20
4	None	24V	Incand., 24V, #1819	No Lens	CR104PSL34A00S8 ¹	\$54.00
4	1NO-1NC	24V	Incand., 24V, #1819	Red	CR104PSL34R11S8	\$76.20
4	1NO-1NC	24V	Incand., 24V, #1819	Green	CR104PSL34G11S8	\$76.20
4	1NO-1NC	24V	Incand., 24V, #1819	Yellow	CR104PSL34E11S8	\$76.20
4	1NO-1NC	24V	Incand., 24V, #1819	No Lens	CR104PSL34A11S8 ¹	\$72.00
4	None	120V	Incand., 130V	Red	CR104PSL34R00S2	\$58.20
4	None	120V	Incand., 130V	Green	CR104PSL34G00S2	\$58.20
4	None	120V	Incand., 130V	Yellow	CR104PSL34E00S2	\$58.20
4	None	120V	Incand., 130V	No Lens	CR104PSL34A00S2 ¹	\$54.00
4	1NO-1NC	120V	Incand., 130V	Red	CR104PSL34R11S2	\$76.20
4	1NO-1NC	120V	Incand., 130V	Green	CR104PSL34G11S2	\$76.20
4	1NO-1NC	120V	Incand., 130V	Yellow	CR104PSL34E11S2	\$76.20
4	1NO-1NC	120V	Incand., 130V	No Lens	CR104PSL34A11S2 ¹	\$72.00
2	None	6V	Incand., 6V, #755	Red	CR104PSL32R00S6	\$58.20
2	None	6V	Incand., 6V, #755	Green	CR104PSL32G00S6	\$58.20
2	None	6V	Incand., 6V, #755	Yellow	CR104PSL32E00S6	\$58.20
2	None	6V	Incand., 6V, #755	No Lens	CR104PSL32A00S6 ¹	\$54.00
2	1NO-1NC	6V	Incand., 6V, #755	Red	CR104PSL32R11S6	\$76.20
2	1NO-1NC	6V	Incand., 6V, #755	Green	CR104PSL32G11S6	\$76.20
2	1NO-1NC	6V	Incand., 6V, #755	Yellow	CR104PSL32E11S6	\$76.20
2	1NO-1NC	6V	Incand., 6V, #755	No Lens	CR104PSL32A11S6 ¹	\$72.00
2	None	24V	Incand., 24V, #1819	Red	CR104PSL32R00S8	\$58.20
2	None	24V	Incand., 24V, #1819	Green	CR104PSL32G00S8	\$58.20
2	None	24V	Incand., 24V, #1819	Yellow	CR104PSL32E00S8	\$58.20
2	None	24V	Incand., 24V, #1819	No Lens	CR104PSL32A00S8 ¹	\$54.00

3-Position Maintained Full Voltage Type (continued)

3 Position Cam Code	Contact Configuration	Input Voltage	Lamp Type ²	Color	Product Number	List Price GO-10P1
2	1NO-1NC	24V	Incand., 24V, #1819	Red	CR104PSL32R11S8	\$76.20
2	1NO-1NC	24V	Incand., 24V, #1819	Green	CR104PSL32G11S8	\$76.20
2	1NO-1NC	24V	Incand., 24V, #1819	Yellow	CR104PSL32E11S8	\$76.20
2	1NO-1NC	24V	Incand., 24V, #1819	No Lens	CR104PSL32A11S8 ¹	\$72.00
2	None	120V	Incand., 130V	Red	CR104PSL32R00S2	\$58.20
2	None	120V	Incand., 130V	Green	CR104PSL32G00S2	\$58.20
2	None	120V	Incand., 130V	Yellow	CR104PSL32E00S2	\$58.20
2	None	120V	Incand., 130V	No Lens	CR104PSL32A00S2 ¹	\$54.00
2	1NO-1NC	120V	Incand., 130V	Red	CR104PSL32R11S2	\$76.20
2	1NO-1NC	120V	Incand., 130V	Green	CR104PSL32G11S2	\$76.20
2	1NO-1NC	120V	Incand., 130V	Yellow	CR104PSL32E11S2	\$76.20
2	1NO-1NC	120V	Incand., 130V	No Lens	CR104PSL32A11S2 ¹	\$72.00
6	None	6V	Incand., 6V, #755	Red	CR104PSL36R00S6	\$58.20
6	None	6V	Incand., 6V, #755	Green	CR104PSL36G00S6	\$58.20
6	None	6V	Incand., 6V, #755	Yellow	CR104PSL36E00S6	\$58.20
6	None	6V	Incand., 6V, #755	No Lens	CR104PSL36A00S6 ¹	\$54.00
6	1NO-1NC	6V	Incand., 6V, #755	Red	CR104PSL36R11S6	\$76.20
6	1NO-1NC	6V	Incand., 6V, #755	Green	CR104PSL36G11S6	\$76.20
6	1NO-1NC	6V	Incand., 6V, #755	Yellow	CR104PSL36E11S6	\$76.20
6	1NO-1NC	6V	Incand., 6V, #755	No Lens	CR104PSL36A11S6 ¹	\$72.00
6	None	24V	Incand., 24V, #1819	Red	CR104PSL36R00S8	\$58.20
6	None	24V	Incand., 24V, #1819	Green	CR104PSL36G00S8	\$58.20
6	None	24V	Incand., 24V, #1819	Yellow	CR104PSL36E00S8	\$58.20
6	None	24V	Incand., 24V, #1819	No Lens	CR104PSL36A00S8 ¹	\$54.00
6	1NO-1NC	24V	Incand., 24V, #1819	Red	CR104PSL36R11S8	\$76.20
6	1NO-1NC	24V	Incand., 24V, #1819	Green	CR104PSL36G11S8	\$76.20
6	1NO-1NC	24V	Incand., 24V, #1819	Yellow	CR104PSL36E11S8	\$76.20
6	1NO-1NC	24V	Incand., 24V, #1819	No Lens	CR104PSL36A11S8 ¹	\$72.00
6	None	120V	Incand., 130V	Red	CR104PSL36R00S2	\$58.20
6	None	120V	Incand., 130V	Green	CR104PSL36G00S2	\$58.20
6	None	120V	Incand., 130V	Yellow	CR104PSL36E00S2	\$58.20
6	None	120V	Incand., 130V	No Lens	CR104PSL36A00S2 ¹	\$54.00
6	1NO-1NC	120V	Incand., 130V	Red	CR104PSL36R11S2	\$76.20
6	1NO-1NC	120V	Incand., 130V	Green	CR104PSL36G11S2	\$76.20
6	1NO-1NC	120V	Incand., 130V	Yellow	CR104PSL36E11S2	\$76.20
6	1NO-1NC	120V	Incand., 130V	No Lens	CR104PSL36A11S2 ¹	\$72.00

¹Select required lens from page 9-36 and order as separate item. To order assembled units with lens colors not listed above, substitute the following letters in place of "A" in Product Number: L (Blue), M (Amber), W (White), or C (Clear). Price is same as for units with lenses of listed colors.

²All lamps miniature bayonet base.

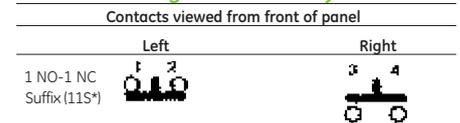
3-Position Selector Switches - Illuminated

Operator Position	Cam #2		Cam #4		Cam #6	
	Type of Contact Block	Mounting Location Left/Right	Type of Contact Block	Mounting Location Left/Right	Type of Contact Block	Mounting Location Left/Right
O O X	-	-	NO	Right	-	-
O X O	NC	Left	-	-	-	-
X O O	NO	Right	NC	Left	NO	Right
X X O	-	-	-	-	NC	Left
O X X	-	-	-	-	-	-

In the product number of a selector switch, the cam is identified by the fifth figure after the "104".

Example: CR104PSG2 1 B, the cam number is 1.

Schematic Diagrams - Factory Forms



Numbers and letters are molded into blocks at terminals.

*Voltage digit.



Pilot and Signaling Devices Heavy-Duty 30.5 mm Watertight/Oiltight Selector Switches

Section 9

CR104P

Knob Operated
Illuminated
600 Volts Max. AC/DC
10 Amperes Continuous

Units are supplied factory-assembled when ordered with contact blocks.

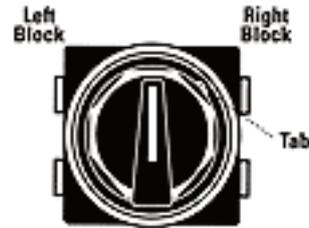
Product Number and price do not include nameplate. All nameplates must be ordered as a separate item.

Resistor forms of 2-position and 3-position illuminated selector switches are available. Contact nearest GE Representative for proper selection and pricing.

Suitable for use in NEMA Type 1, 3, 3R, 4, 4X, 12, and 13 applications, when mounted in enclosures rated for those same applications. For some NEMA Type 4X applications, protective caps will improve corrosion resistance.



Transformer



Contacts viewed from front of panel.

3-Position Spring Return L C R Transformer Type

3 Position Cam Code	Contact Configuration	Input Voltage	Lamp Type ²	Color	Product Number	List Price GO-10P1
4	None	120V	Incand., 6V, #755	Red	CR104PST94R00S2	\$82.20
4	None	120V	Incand., 6V, #755	Green	CR104PST94G00S2	\$82.20
4	None	120V	Incand., 6V, #755	Yellow	CR104PST94E00S2	\$82.20
4	None	120V	Incand., 6V, #755	No Lens	CR104PST94A00S2 ¹	\$78.00
4	1NO-1NC	120V	Incand., 6V, #755	Red	CR104PST94R11S2	\$100.20
4	1NO-1NC	120V	Incand., 6V, #755	Green	CR104PST94G11S2	\$100.20
4	1NO-1NC	120V	Incand., 6V, #755	Yellow	CR104PST94E11S2	\$100.20
4	1NO-1NC	120V	Incand., 6V, #755	No Lens	CR104PST94A11S2	\$96.00
4	None	240V	Incand., 6V, #755	Red	CR104PST94R00S3	\$82.20
4	None	240V	Incand., 6V, #755	Green	CR104PST94G00S3	\$82.20
4	None	240V	Incand., 6V, #755	Yellow	CR104PST94E00S3	\$82.20
4	None	240V	Incand., 6V, #755	No Lens	CR104PST94A00S3 ¹	\$78.00
4	1NO-1NC	240V	Incand., 6V, #755	Red	CR104PST94R11S3	\$100.20
4	1NO-1NC	240V	Incand., 6V, #755	Green	CR104PST94G11S3	\$100.20
4	1NO-1NC	240V	Incand., 6V, #755	Yellow	CR104PST94E11S3	\$100.20
4	1NO-1NC	240V	Incand., 6V, #755	No Lens	CR104PST94A11S3 ¹	\$96.00
2	None	120V	Incand., 6V, #755	Red	CR104PST92R00S2	\$82.20
2	None	120V	Incand., 6V, #755	Green	CR104PST92G00S2	\$82.20
2	None	120V	Incand., 6V, #755	Yellow	CR104PST92E00S2	\$82.20
2	None	120V	Incand., 6V, #755	No Lens	CR104PST92A00S2 ¹	\$78.00
2	1NO-1NC	120V	Incand., 6V, #755	Red	CR104PST92R11S2	\$100.20
2	1NO-1NC	120V	Incand., 6V, #755	Green	CR104PST92G11S2	\$100.20
2	1NO-1NC	120V	Incand., 6V, #755	Yellow	CR104PST92E11S2	\$100.20
2	1NO-1NC	120V	Incand., 6V, #755	No Lens	CR104PST92A11S2 ¹	\$96.00
2	None	240V	Incand., 6V, #755	Red	CR104PST92R00S3	\$82.20
2	None	240V	Incand., 6V, #755	Green	CR104PST92G00S3	\$82.20
2	None	240V	Incand., 6V, #755	Yellow	CR104PST92E00S3	\$82.20
2	None	240V	Incand., 6V, #755	No Lens	CR104PST92A00S3 ¹	\$78.00
2	1NO-1NC	240V	Incand., 6V, #755	Red	CR104PST92R11S3	\$100.20
2	1NO-1NC	240V	Incand., 6V, #755	Green	CR104PST92G11S3	\$100.20
2	1NO-1NC	240V	Incand., 6V, #755	Yellow	CR104PST92E11S3	\$100.20
2	1NO-1NC	240V	Incand., 6V, #755	No Lens	CR104PST92A11S3 ¹	\$96.00

3-Position Spring Return L C R Transformer Type (continued)

3 Position Cam Code	Contact Configuration	Input Voltage	Lamp Type ²	Color	Product Number	List Price GO-10P1
6	None	120V	Incand., 6V, #755	Red	CR104PST96R00S2	\$82.20
6	None	120V	Incand., 6V, #755	Green	CR104PST96G00S2	\$82.20
6	None	120V	Incand., 6V, #755	Yellow	CR104PST96E00S2	\$82.20
6	None	120V	Incand., 6V, #755	No Lens	CR104PST96A00S2 ¹	\$78.00
6	1NO-1NC	120V	Incand., 6V, #755	Red	CR104PST96R11S2	\$100.20
6	1NO-1NC	120V	Incand., 6V, #755	Green	CR104PST96G11S2	\$100.20
6	1NO-1NC	120V	Incand., 6V, #755	Yellow	CR104PST96E11S2	\$100.20
6	1NO-1NC	120V	Incand., 6V, #755	No Lens	CR104PST96A11S2 ¹	\$96.00
6	None	240V	Incand., 6V, #755	Red	CR104PST96R00S3	\$82.20
6	None	240V	Incand., 6V, #755	Green	CR104PST96G00S3	\$82.20
6	None	240V	Incand., 6V, #755	Yellow	CR104PST96E00S3	\$82.20
6	None	240V	Incand., 6V, #755	No Lens	CR104PST96A00S3 ¹	\$78.00
6	1NO-1NC	240V	Incand., 6V, #755	Red	CR104PST96R11S3	\$100.20
6	1NO-1NC	240V	Incand., 6V, #755	Green	CR104PST96G11S3	\$100.20
6	1NO-1NC	240V	Incand., 6V, #755	Yellow	CR104PST96E11S3	\$100.20
6	1NO-1NC	240V	Incand., 6V, #755	No Lens	CR104PST96A11S3 ¹	\$96.00

¹Select required lens from page 9-36 and order as separate item. To order assembled units with lens colors not listed above, substitute the following letters in place of "A" in Product Number: L (Blue), M (Amber), W (White), or C (Clear). Price is same as for units with lenses of listed colors.

²All lamps miniature bayonet base.

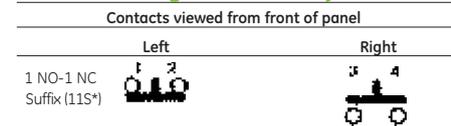
3-Position Selector Switches - Illuminated

Operator Position	Cam #2		Cam #4		Cam #6	
	Type of Contact Block	Mounting Location Left/Right	Type of Contact Block	Mounting Location Left/Right	Type of Contact Block	Mounting Location Left/Right
O	O	X	-	-	NO	Right
O	X	O	NC	Left	-	-
X	O	O	NO	Right	NC	Left
X	X	O	-	-	-	NC
O	X	X	-	-	-	Left

In the product number of a selector switch, the cam is identified by the fifth figure after the "104".

Example: CR104PSG2 1 B, the cam number is 1.

Schematic Diagrams - Factory Forms



Numbers and letters are molded into blocks at terminals.

*Voltage digit.



Lamps: See pages 9-35
Nameplates: See pages 9-40 to 9-41
Technical Data: See pages 9-48 to 9-49

Drilling Plans and Dimensions: See page 9-49
Product Number Selection Instructions: See pages 9-2

Pilot and Signaling Devices Heavy-Duty 30.5 mm Watertight/Oiltight Selector Switches

CR104P

Knob Operated
Illuminated
600 Volts Max. AC/DC
10 Amperes Continuous

Units are supplied factory-assembled when ordered with contact blocks.

Product Number and price do not include nameplate. All nameplates must be ordered as a separate item.

Resistor forms of 2-position and 3-position illuminated selector switches are available. Contact nearest GE Representative for proper selection and pricing.

Suitable for use in NEMA Type 1, 3, 3R, 4, 4X, 12, and 13 applications, when mounted in enclosures rated for those same applications. For some NEMA Type 4X applications, protective caps will improve corrosion resistance.

3-Position Spring Return L C R Full Voltage Type

3 Position Cam Code	Contact Configuration	Input Voltage	Lamp Type ²	Color	Product Number	List Price GO-10P1
4	None	6V	Incand., 6V, #755	Red	CR104PSL94R0056	\$70.20
4	None	6V	Incand., 6V, #755	Green	CR104PSL94G0056	\$70.20
4	None	6V	Incand., 6V, #755	Yellow	CR104PSL94E0056	\$70.20
4	None	6V	Incand., 6V, #755	No Lens	CR104PSL94A0056 ¹	\$66.00
4	1NO-1NC	6V	Incand., 6V, #755	Red	CR104PSL94R1156	\$88.20
4	1NO-1NC	6V	Incand., 6V, #755	Green	CR104PSL94G1156	\$88.20
4	1NO-1NC	6V	Incand., 6V, #755	Yellow	CR104PSL94E1156	\$88.20
4	1NO-1NC	6V	Incand., 6V, #755	No Lens	CR104PSL94A1156 ¹	\$84.00
4	None	24V	Incand., 24V, #1819	Red	CR104PSL94R0058	\$70.20
4	None	24V	Incand., 24V, #1819	Green	CR104PSL94G0058	\$70.20
4	None	24V	Incand., 24V, #1819	Yellow	CR104PSL94E0058	\$70.20
4	None	24V	Incand., 24V, #1819	No Lens	CR104PSL94A0058 ¹	\$66.00
4	1NO-1NC	24V	Incand., 24V, #1819	Red	CR104PSL94R1158	\$88.20
4	1NO-1NC	24V	Incand., 24V, #1819	Green	CR104PSL94G1158	\$88.20
4	1NO-1NC	24V	Incand., 24V, #1819	Yellow	CR104PSL94E1158	\$88.20
4	1NO-1NC	24V	Incand., 24V, #1819	No Lens	CR104PSL94A1158 ¹	\$84.00
4	None	120V	Incand., 130V	Red	CR104PSL94R0052	\$70.20
4	None	120V	Incand., 130V	Green	CR104PSL94G0052	\$70.20
4	None	120V	Incand., 130V	Yellow	CR104PSL94E0052	\$70.20
4	None	120V	Incand., 130V	No Lens	CR104PSL94A0052 ¹	\$66.00
4	1NO-1NC	120V	Incand., 130V	Red	CR104PSL94R1152	\$88.20
4	1NO-1NC	120V	Incand., 130V	Green	CR104PSL94G1152	\$88.20
4	1NO-1NC	120V	Incand., 130V	Yellow	CR104PSL94E1152	\$88.20
4	1NO-1NC	120V	Incand., 130V	No Lens	CR104PSL94A1152 ¹	\$84.00
2	None	6V	Incand., 6V, #755	Red	CR104PSL92R0056	\$70.20
2	None	6V	Incand., 6V, #755	Green	CR104PSL92G0056	\$70.20
2	None	6V	Incand., 6V, #755	Yellow	CR104PSL92E0056	\$70.20
2	None	6V	Incand., 6V, #755	No Lens	CR104PSL92A0056 ¹	\$66.00
2	1NO-1NC	6V	Incand., 6V, #755	Red	CR104PSL92R1156	\$88.20
2	1NO-1NC	6V	Incand., 6V, #755	Green	CR104PSL92G1156	\$88.20
2	1NO-1NC	6V	Incand., 6V, #755	Yellow	CR104PSL92E1156	\$88.20
2	1NO-1NC	6V	Incand., 6V, #755	No Lens	CR104PSL92A1156 ¹	\$84.00
2	None	24V	Incand., 24V, #1819	Red	CR104PSL92R0058	\$70.20
2	None	24V	Incand., 24V, #1819	Green	CR104PSL92G0058	\$70.20
2	None	24V	Incand., 24V, #1819	Yellow	CR104PSL92E0058	\$70.20
2	None	24V	Incand., 24V, #1819	No Lens	CR104PSL92A0058 ¹	\$66.00
2	1NO-1NC	24V	Incand., 24V, #1819	Red	CR104PSL92R1158	\$88.20
2	1NO-1NC	24V	Incand., 24V, #1819	Green	CR104PSL92G1158	\$88.20
2	1NO-1NC	24V	Incand., 24V, #1819	Yellow	CR104PSL92E1158	\$88.20
2	1NO-1NC	24V	Incand., 24V, #1819	No Lens	CR104PSL92A1158 ¹	\$84.00

3-Position Spring Return L C R Full Voltage Type (continued)

3 Position Cam Code	Contact Configuration	Input Voltage	Lamp Type ²	Color	Product Number	List Price GO-10P1
2	None	120V	Incand., 130V	Red	CR104PSL92R0052	\$70.20
2	None	120V	Incand., 130V	Green	CR104PSL92G0052	\$70.20
2	None	120V	Incand., 130V	Yellow	CR104PSL92E0052	\$70.20
2	None	120V	Incand., 130V	No Lens	CR104PSL92A0052 ¹	\$66.00
2	1NO-1NC	120V	Incand., 130V	Red	CR104PSL92R1152	\$88.20
2	1NO-1NC	120V	Incand., 130V	Green	CR104PSL92G1152	\$88.20
2	1NO-1NC	120V	Incand., 130V	Yellow	CR104PSL92E1152	\$88.20
2	1NO-1NC	120V	Incand., 130V	No Lens	CR104PSL92A1152 ¹	\$84.00
6	None	6V	Incand., 6V, #755	Red	CR104PSL96R0056	\$70.20
6	None	6V	Incand., 6V, #755	Green	CR104PSL96G0056	\$70.20
6	None	6V	Incand., 6V, #755	Yellow	CR104PSL96E0056	\$70.20
6	None	6V	Incand., 6V, #755	No Lens	CR104PSL96A0056 ¹	\$66.00
6	1NO-1NC	6V	Incand., 6V, #755	Red	CR104PSL96R1156	\$88.20
6	1NO-1NC	6V	Incand., 6V, #755	Green	CR104PSL96G1156	\$88.20
6	1NO-1NC	6V	Incand., 6V, #755	Yellow	CR104PSL96E1156	\$88.20
6	1NO-1NC	6V	Incand., 6V, #755	No Lens	CR104PSL96A1156 ¹	\$84.00
6	None	24V	Incand., 24V, #1819	Red	CR104PSL96R0058	\$70.20
6	None	24V	Incand., 24V, #1819	Green	CR104PSL96G0058	\$70.20
6	None	24V	Incand., 24V, #1819	Yellow	CR104PSL96E0058	\$70.20
6	None	24V	Incand., 24V, #1819	No Lens	CR104PSL96A0058 ¹	\$66.00
6	1NO-1NC	24V	Incand., 24V, #1819	Red	CR104PSL96R1158	\$88.20
6	1NO-1NC	24V	Incand., 24V, #1819	Green	CR104PSL96G1158	\$88.20
6	1NO-1NC	24V	Incand., 24V, #1819	Yellow	CR104PSL96E1158	\$88.20
6	1NO-1NC	24V	Incand., 24V, #1819	No Lens	CR104PSL96A1158 ¹	\$84.00
6	None	120V	Incand., 130V	Red	CR104PSL96R0052	\$70.20
6	None	120V	Incand., 130V	Green	CR104PSL96G0052	\$70.20
6	None	120V	Incand., 130V	Yellow	CR104PSL96E0052	\$70.20
6	None	120V	Incand., 130V	No Lens	CR104PSL96A0052 ¹	\$66.00
6	1NO-1NC	120V	Incand., 130V	Red	CR104PSL96R1152	\$88.20
6	1NO-1NC	120V	Incand., 130V	Green	CR104PSL96G1152	\$88.20
6	1NO-1NC	120V	Incand., 130V	Yellow	CR104PSL96E1152	\$88.20
6	1NO-1NC	120V	Incand., 130V	No Lens	CR104PSL96A1152 ¹	\$84.00

¹Select required lens from page 9-36 and order as separate item. To order assembled units with lens colors not listed above, substitute the following letters in place of "A" in Product Number: L (Blue), M (Amber), W (White), or C (Clear). Price is same as for units with lenses of listed colors.

²All lamps miniature bayonet base.

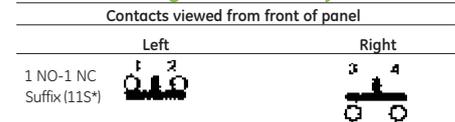
3-Position Selector Switches - Illuminated

Operator Position	Cam #2		Cam #4		Cam #6	
	Type of Contact Block	Mounting Location Left/Right	Type of Contact Block	Mounting Location Left/Right	Type of Contact Block	Mounting Location Left/Right
O O X	-	-	NO	Right	-	-
O X O	NC	Left	-	-	-	-
X O O	NO	Right	NC	Left	NO	Right
X X O	-	-	-	-	NC	Left
O X X	-	-	-	-	-	-

In the product number of a selector switch, the cam is identified by the fifth figure after the "104".

Example: CR104PSG2 1 B, the cam number is 1.

Schematic Diagrams - Factory Forms



Numbers and letters are molded into blocks at terminals.

*Voltage digit.



Pilot and Signaling Devices Heavy-Duty 30.5 mm Watertight/Oiltight Selector Switches

Section 9

CR104P

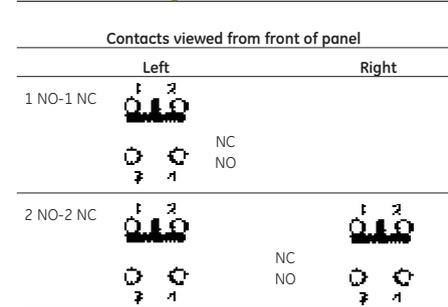
Cam Logic
600 Volts max. AC/DC
10 Amperes Continuous

2-Position Selector Switches

Operator Position	Illuminated or Non-Illuminated		Non-Illuminated Only		Non-Illuminated Only				
	Case #1		Case #2		Case #3				
	Type of Contact Block	Mounting Location, Left-Right	Type of Contact Block	Mounting Location, Left-Right	Type of Contact Block	Mounting Location, Left-Right			
Contact State	O	—	X	NO	Left	—	—		
	X	—	O	NC	Left	—	—		
	X	O	—	—	—	NO	Left		
	O	X	—	—	—	NC	Left		
Contact State	—	O	—	—	—	—	NO	Left	
	—	X	—	—	—	—	—	NC	Left
	O	—	X	—	—	—	—	—	—
	X	—	X	—	—	—	—	—	—

In the product number of a 2-position selector switch, the cam is identified by the fifth figure after the "104". Example: CR104PSG2 1 B, the cam number is 1.

Schematic Diagrams



Numbers and letters are molded into blocks at terminals.

3-Position Selector Switches

Operator Position	Illuminated or Non-Illuminated		Non-Illuminated Only		Illuminated or Non-Illuminated		Non-Illuminated Only		Illuminated or Non-Illuminated		
	Case #2		Case #3		Case #4		Case #5		Case #6		
	Type of Contact Block	Mounting Location, Left-Right	Type of Contact Block	Mounting Location, Left-Right	Type of Contact Block	Mounting Location, Left-Right	Type of Contact Block	Mounting Location, Left-Right	Type of Contact Block	Mounting Location, Left-Right	
Contact State	O	O	X	—	—	NO	Left	NO	Left	NO	Left
	O	X	O	NC	Left	NC	Left	—	—	NC	Right
	X	O	O	NO	Left	—	—	NC	Left	NC	Right
	X	X	O	1-NO+1-NC	in parallel ¹	—	—	—	—	—	—
Contact State	O	X	X	—	—	1-NO+1-NC	in parallel ¹	—	—	—	—
	X	O	X	—	—	—	—	1-NO+1-NC	in parallel ¹	NO+NC	Right Left in parallel ¹
	—	O	—	—	—	—	—	—	—	—	—
	—	X	—	—	—	—	—	—	—	—	—

4-Position Selector Switch

Operator Position	Non-Illuminated Only				Field Wired		
	Cam #7						
	Type of Contact Block	Mounting Location Left-Right					
Contact State	X	O	O	O	NC	Left	—
	O	O	X	O	NO	Left	—
	O	O	O	X	NC	Right	—
	O	X	O	O	NO	Right	—
	O	O	X	X	NO	Left	2-in parallel
	O	O	X	X	NC	Right	2-in parallel
	O	X	O	X	NO	Right	2-in parallel
	O	X	X	O	NO	Left	2-in parallel
	O	X	X	O	NO	Right	2-in parallel
	X	O	O	X	NC	Left	2-in parallel
	X	O	X	O	NC	Right	2-in parallel
	X	O	X	O	NO	Left	2-in parallel
	O	X	X	X	NO	Left	3-in parallel
	O	X	X	X	NC	Right	3-in parallel
	X	X	X	O	NO	Left	3-in parallel
	X	X	X	O	NC	Right	3-in parallel
	X	X	O	X	NO	Left	3-in parallel
	X	X	O	X	NC	Right	3-in parallel
	X	O	X	X	NO	Left	3-in parallel
	X	O	X	X	NC	Right	3-in parallel

X = Contact is closed.
O = Contact is open.
NO = Normally open contact.
NC = Normally closed contact.
— = This position is nonexistent or is a "pass-through" position with no detent to stop or hold the knob there.
¹Field wired.

In the product number of a 3-position non-illuminated selector switch the fifth figure after the "104" is the cam code number.

Example: In CR104PSG3 2 B91, the cam number is 2. Note that an "open" position for an NO contact may **not** be a closed position for an NC contact at the same location and knob position. The cam may depress the contact plunger only halfway in that position.

Changing cams on operators is not recommended; but, changing contact blocks on operators per above chart may meet a special need.

Example: To provide both X O O and O X O operation, simply add a single-circuit NO contact block (L or R) to a CR104PSG3 2 B01.



Pilot and Signaling Devices

Heavy-Duty 30.5 mm Watertight/Oiltight Special Operators

CR104P

Section 9

Joysticks

600 Volts max. AC/DC

10 Amperes Continuous

Suitable for use in NEMA Types 1, 3, 3R, 4, 4X, 12, and 13 applications when mounted in enclosures rated for those same applications. For some NEMA Type 4X applications, protective caps will improve corrosion resistance. Boot is nitrile rubber, check for application suitability. For optional silicone boot, contact factory for availability. Nine-position selector switch contact rating is 10 Amperes at 125/150 Volts ac. Terminals are solder or quick connect type.

3-Position



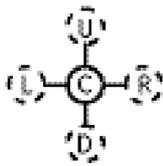
Position	Contact Block	
	Left	Right
R	X	O
C	O	X
L	O	X

Release Type	Product Number	List Price GO-10P1
Maintained	CR104PJJ31	\$142.20
Momentary	CR104PJB31	\$142.20
Momentary with mechanical interlock in center position	CR104PJB31B	\$148.20



Momentary

5-Position



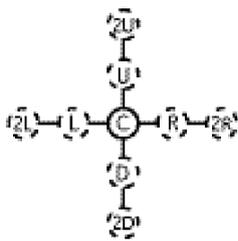
Position	Contact Block	
	Left	Right
U	X	-
R	-	O
C	-	-
D	O	-
L	-	X

Release Type	Product Number	List Price GO-10P1
Maintained	CR104PJC53	\$166.20
Momentary	CR104PJD53	\$166.20
Maintained with mechanical interlock in center position	CR104PJC53B	\$172.20
Momentary with mechanical interlock in center position	CR104PJD53B	\$172.20



Maintained

9-Position

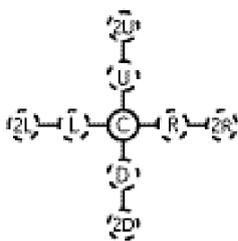


Pos.	Contact Block							
	1	2	3	4	5	6	7	8
2U	O	O	X	X	X	X	X	X
U	X	X	O	O	O	O	O	O
2R	X	X	X	X	O	O	O	X
R	O	O	O	O	X	X	X	O
C	X	X	X	X	X	X	X	X
D	X	X	O	X	X	X	X	X
2D	X	X	O	O	X	X	X	X
L	X	X	X	X	X	X	O	X
2L	X	X	X	X	X	X	O	X

Release Type	Product Number	List Price GO-10P1
Maintained	CR104PJL96	\$304.20
Momentary	CR104PJM96	\$304.20
Maintained with mechanical interlock in center position	CR104PJL96B	\$310.20
Momentary with mechanical interlock in center position	CR104PJM96B	\$310.20



Mechanical Interlock



Pos.	Contact Block							
	1	2	3	4	5	6	7	8
2U	O	X	X	X	X	X	X	X
U	X	O	X	X	X	X	X	X
2R	X	X	X	X	O	X	X	X
R	X	X	X	X	O	X	X	X
C	X	X	X	X	X	X	X	X
D	X	X	O	X	X	X	X	X
2D	X	X	O	X	X	X	X	X
L	X	X	X	X	X	X	O	X
2L	X	X	X	X	X	X	O	X

Release Type	Product Number	List Price GO-10P1
Maintained	CR104PJL97	\$304.20
Momentary	CR104PJM97	\$304.20
Maintained with mechanical interlock in center position	CR104PJL97B	\$310.20
Momentary with mechanical interlock in center position	CR104PJM97B	\$310.20



9-Position



Pilot and Signaling Devices

Heavy-Duty 30.5 mm Watertight/Oiltight Special Operators

Section 9

CR104P

Potentiometer Operators

600 Volts max. AC/DC

10 Amperes Continuous

Potentiometer operators are designed for 2-watt potentiometers with shafts 2" long and .25" in diameter. Potentiometers offered here fit that description and also are available as Clinostat model 380C1.

Suitable for use in NEMA Types 1, 3, 3R, 4X, 12, and 13 applications when mounted in enclosures rated for those same applications. For some NEMA Type 4X applications, protective caps will improve corrosion resistance.

Potentiometer Operators

Ohms	Product Number	List Price
		GO-10P1
None (Operator Only)	CR104PXP	\$70.20

Assembled Potentiometer Operators

Ohms	Product Number	List Price
		GO-10P1
100 Ohms	CR104PXP01	\$118.20
250 Ohms	CR104PXP02	\$118.20
500 Ohms	CR104PXP03	\$118.20
1,000 Ohms	CR104PXP04	\$118.20
2,500 Ohms	CR104PXP05	\$118.20
5,000 Ohms	CR104PXP06	\$118.20
10,000 Ohms	CR104PXP07	\$118.20
25,000 Ohms	CR104PXP08	\$118.20
50,000 Ohms	CR104PXP09	\$118.20
100,000 Ohms	CR104PXP10	\$118.20
250,000 Ohms	CR104PXP11	\$118.20
500,000 Ohms	CR104PXP12	\$118.20
1 million Ohms	CR104PXP13	\$118.20
2.5 million Ohms	CR104PXP14	\$118.20
5 million Ohms	CR104PXP15	\$118.20



Potentiometer Operator



Nameplates: See pages 9-40 to 9-41
 Technical Data: See pages 9-48 to 9-49
 Drilling Plans and Dimensions: See page 9-49

Product Number Selection Instructions: See pages 9-2

Pilot and Signaling Devices

Heavy-Duty 30.5 mm Watertight/Oiltight Accessories

CR104P

Contact Blocks
600 Volts max. AC/DC
10 Amperes Continuous

Description

The basic contact block features one normally open/one normally closed (1NO-1NC) contact with a white plunger. There are two types of standard single contact blocks. One contains 1NC contact with a red plunger; the other contains 1NO contact with a green plunger.

Application

Gold flashed contacts are recommended for nonarcing, low-level loads (below 48 volts). All standard forms of the CR104P contact blocks are available with gold flashed contacts

Logic reed contact blocks are specially suited for operations using low voltage levels (24 volts or below) typically available from programmable logic controls or computer systems.

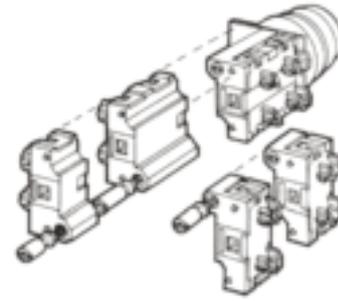
They are ideal for use in hostile environments at voltages up to 120 Vac.

Installing and Adding Blocks

A single captive screw, coupled with mating projections and recesses, connects each contact block to the operator or to another contact block, and it provides resistance to shock and vibration. These internally threaded screws make mounting to other blocks possible, allowing assembly of side-by-side and piggyback contact blocks. Depending on the capacity of the operator unit, it is possible to obtain a maximum of eight circuits (four on each side).

Connections

The terminal screws, equipped with captive saddle clamps, are mounted in offset positions to allow easy accessibility, even when installed with minimum center distance. You need only to strip the wire, place it under the saddle clamp, and tighten it to provide a positive, reliable connection. Standard and gold flashed contact blocks are supplied with IP10 back-of-hand protection to comply with UL508 Section 39A requirement for door mounted devices. Contact blocks are also available with IP20 finger safe protection.



Connections

Maximum Contacts

Operator	Single Current		Double Circuit	
	Blocks	Contacts	Blocks	Contacts
Non-illuminated selector switches (excluding 4-position)	6	6	6	12
Combination (push-turn)	6	6	6	12
Non-illuminated momentary push buttons (incl. mushroom-head)	8	8	4	8
Illuminated momentary push buttons	4	4	2	4
Push-to-latch/turn-to-release mushroom-head push buttons	4	4	4	8
Key push buttons	4	4	4	8
Illuminated selector switches	4	4	2	4
3-position & 5-position joysticks	4	4	4	8
Push-pull illuminated mushroom-head push buttons	2	2	2	4
Push-pull non-illuminated mushroom-head push buttons	2	2	2	4
Non-illuminated 4-position selector switches	—	—	2	4
Push-push illuminated push buttons	2	2	—	—



Pilot and Signaling Devices Heavy-Duty 30.5 mm Watertight/Oiltight Accessories

Section 9

CR104P

Contact Blocks

600 Volts max. AC/DC

10 Amperes Continuous

Suitable for use in NEMA Types 1, 3, 3R, 4, 4X, 12, and 13 applications when mounted in enclosures rated for those same applications. For some NEMA Type 4X applications, protective caps will improve corrosion resistance.



Single-Circuit with Finger-Safe Terminals

Standard

Contact Configuration	Operating Plunger Color	Protection	Product Number	List Price GO-10P1
1NO-1NC	White	IP10 Back-of-Hand	CR104PXC91	\$18.00
1NO	Green	IP10 Back-of-Hand	CR104PXC1	\$9.00
1NC	Red	IP10 Back-of-Hand	CR104PXC01	\$9.00
1NO (early close)	White	IP10 Back-of-Hand	CR104PXC10E ¹	\$9.00
1NC (late open)	White	IP10 Back-of-Hand	CR104PXC01L ¹	\$9.00
1NO	Green	IP20 Finger	CR104PXC1F	\$12.00
1NC	Red	IP20 Finger	CR104PXC01F	\$12.00
1NO (early close)	White	IP20 Finger	CR104PXC10EF	\$12.00
1NC (late open)	White	IP20 Finger	CR104PXC01LF	\$12.00

¹Overlapping contacts can be achieved by combining CR104PXC10E , EF and CR104PXC01L, LF.

Gold Flashed

Contact Configuration	Operating Plunger Color	Protection	Product Number	List Price GO-10P1
1NO-1NC	White	IP10 Back-of-Hand	CR104PXC91G	\$36.00
1NO	Green	IP10 Back-of-Hand	CR104PXC10G	\$18.00
1NC	Red	IP10 Back-of-Hand	CR104PXC01G	\$18.00
1NO (early close)	White	IP10 Back-of-Hand	CR104PXC10EG ²	\$18.00
1NC (late open)	White	IP10 Back-of-Hand	CR104PXC01LG ²	\$18.00
1NO	Green	IP20 Finger	CR104PXC10GF	\$21.00
1NC	Red	IP20 Finger	CR104PXC01GF	\$21.00
1NO (early close)	White	IP20 Finger	CR104PXC10EGF ²	\$21.00
1NC (late open)	White	IP20 Finger	CR104PXC01LGF ²	\$21.00

²Overlapping contacts can be achieved by combining CR104PXC10EG , EGF and CR104PXC01LG, LGF.



Single Circuit Contact Block

Reed Switch

Contact Configuration	Product Number ³	List Price GO-10P1
1NO	CR104PXC10R	\$18.00
1NC	CR104PXC01R	\$18.00

³Sold as components only. Suitable for Class I, Group A,B,C and D, Div. 2, Class II Hazardous Locations; Groups F and G Hazardous Locations when installed in a NEMA Type 4 or 12 enclosure.

IP10 Guards For Contact Blocks

For Use With	Product Number ⁴	List Price GO-10P1
1NO	CR104PXG117	\$0.50
1NC	CR104PXG118	\$0.50
1NO-1NC	CR104PXG119	\$0.75

⁴Minimum order quantity is 10; package quantity is 10; multiple quantities is 10.

IP20 Guards For Contact Blocks

For Use With	Product Number	List Price GO-10P1
1NO	CR104PXG17	\$3.00
1NC	CR104PXG18	\$3.00
1NO-1NC	CR104PXG19	\$6.00



Double Circuit Contact Block

Contact Ratings: Standard Blocks-AC Ratings, NEMA A600 Heavy Pilot Duty

Maximum Voltage	Continuous Current Amperes	AC Make Voltamperes @ 60/50 Hz ¹	AC Break Voltamperes @ 60/50 Hz ⁵
600 VAC/DC	10	7200	720

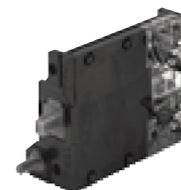
⁵Maximum make and break currents are 60 and 6 amperes respectively for voltages of 120 and below.

Contact Ratings: Standard Blocks-DC Ratings, NEMA P600 Heavy Pilot Duty

Maximum Make or Break Amperes @ 125 VDC	Maximum Make or Break Amperes @ 250 VDC	Maximum Make Or Break Amperes @ 600 VDC
1.1	0.55	0.2

Contact Ratings: Reed Switch Blocks

AC Operating Voltage	AC Maximum Continuous Current	AC Resistive VA	DC Operating Voltage	DC Maximum Continuous Current	DC Resistive Watts
2-120 VAC	.001-.15A	8 VA maximum	2-30 VDC	.001-.15A	4.5 Watts maximum



Reed Switch Contact Block



Nameplates: See pages 9-40 to 9-41
 Technical Data: See pages 9-48 to 9-49
 Product Number Selection Instructions: See pages 9-2

Pilot and Signaling Devices Heavy-Duty 30.5 mm Watertight/Oiltight Accessories

Section 9

CR104P

Accessories, Components and Kits

600 Volts max. AC/DC

10 Amperes Continuous

Lamps

Bulb Type	Voltage	Lamp Type	Description	Product Number	List Price GO-10P1
Incandescent with bayonet base	6V	No. 755 Lamp	Transformers and Full-voltage	CR104PXA16	\$3.00
Incandescent with bayonet base	12V	No. 756 Lamp	Full-voltage	CR104PXA12	\$3.00
Incandescent with bayonet base	24V	No. 1819 Lamp	Full-voltage	CR104PXA14	\$3.00
Incandescent with bayonet base	130V		Full-voltage	CR104PXA54	\$3.00
Incandescent with telephone slide base	120V	No. 120PSB Lamp	Full-voltage, 240 V Resistor	CR104PXA52 ¹	\$3.00
Incandescent with bayonet base	60V	No. 1835 Lamp	120V Resistor	CR104PXA15	\$3.00
Incandescent Flasher with bayonet base	6V	No. 267 Lamp	Full-voltage	CR104PXA16F	\$6.00
Incandescent with screw base	6V	No. 1768 Lamp	Cluster light	CR104PXA26	\$3.00
Incandescent with screw base	12V	No. 373 Lamp	Cluster light	CR104PXA22	\$3.00
Incandescent with screw base	24V	No. 399 Lamp	Cluster light	CR104PXA24	\$3.00
Neon with bayonet base	120V	No. NE51H-R Lamp		CR104PXA19	\$3.00



Lamps

Lamps

Bulb Type	Voltage	Lamp Type	Product Number	List Price GO-10GC
LED with bayonet base	6 VAC/DC	Flat Top; replaces No. 755 Lamp	080BA9S6L*	\$18.00
LED with bayonet base	12 VAC/DC	Flat Top	080BA9S12L*	\$18.00
LED with bayonet base	24 VAC/DC	Flat Top	080BA9S24L*	\$18.00
LED with bayonet base	48 VAC/DC	Flat Top	080BA9S48L*	\$18.00
LED with bayonet base	120 VAC/DC	Flat Top	080BA9S120L*	\$18.00

*Insert LED color from table.

LED Colors

Colors	Red	Green	Yellow	Orange	White	Blue
*Color code	R	V	G	A	B	L

¹For replacement only (GO-11GS).

Mushroom-Head Caps

Mushroom-Head Cap Diameter	Depth (max. projection front of panel)	Color	Illumination	For Use With	Product Number	List Price GO-10P1
1-3/8" (34.9 mm)	1.10" (27.9 mm)	Black	Non-Illuminated	Standard operators	CR104PXM03B	\$6.00
1-3/8" (34.9 mm)	1.10" (27.9 mm)	Red	Non-Illuminated	Standard operators	CR104PXM03R	\$6.00
1-3/8" (34.9 mm)	1.10" (27.9 mm)	Yellow	Non-Illuminated	Standard operators	CR104PXM03E	\$6.00
1-3/8" (34.9 mm)	1.10" (27.9 mm)	Green	Non-Illuminated	Standard operators	CR104PXM03G	\$6.00
1-3/8" (34.9 mm)	1.10" (27.9 mm)	Red	Non-Illuminated	Push-turn operators	CR104PXM04R	\$6.00
2-3/8" (60.3 mm)	1.10" (27.9 mm)	Black	Non-Illuminated	Standard operators	CR104PXM06B	\$6.00
2-3/8" (60.3 mm)	1.10" (27.9 mm)	Red	Non-Illuminated	Standard operators	CR104PXM06R	\$6.00
2-3/8" (60.3 mm)	1.10" (27.9 mm)	Yellow	Non-Illuminated	Standard operators	CR104PXM06E	\$6.00
2-3/8" (60.3 mm)	1.10" (27.9 mm)	Green	Non-Illuminated	Standard operators	CR104PXM06G	\$6.00
1 3/8" (34.9 mm)	1.20" (30.5 mm)	Red	Illuminated	Standard operators	CR104PXL06R	\$4.20
1 3/8" (34.9 mm)	1.20" (30.5 mm)	Yellow	Illuminated	Standard operators	CR104PXL06E	\$4.20
1 3/8" (34.9 mm)	1.20" (30.5 mm)	Green	Illuminated	Standard operators	CR104PXL06G	\$4.20
1 3/8" (34.9 mm)	1.20" (30.5 mm)	Blue	Illuminated	Standard operators	CR104PXL06L	\$4.20
1 3/8" (34.9 mm)	1.20" (30.5 mm)	Amber	Illuminated	Standard operators	CR104PXL06M	\$4.20
1 3/8" (34.9 mm)	1.20" (30.5 mm)	White	Illuminated	Standard operators	CR104PXL06W	\$4.20
1 3/8" (34.9 mm)	1.20" (30.5 mm)	Clear	Illuminated	Standard operators	CR104PXL06C	\$4.20
1.58" (40.1 mm)	1.58" (40.1 mm)	Black	Non-Illuminated	CR104PTY protected operators	CR104PTYZ152	\$6.00
1.58" (40.1 mm)	1.58" (40.1 mm)	Red	Illuminated, Non-Illuminated	CR104PTY protected operators	CR104PTYZ153	\$6.00
1.58" (40.1 mm)	1.58" (40.1 mm)	Orange	Illuminated, Non-Illuminated	CR104PTY protected operators	CR104PTYZ154	\$6.00
1.58" (40.1 mm)	1.58" (40.1 mm)	Yellow	Illuminated, Non-Illuminated	CR104PTY protected operators	CR104PTYZ155	\$6.00
1.58" (40.1 mm)	1.58" (40.1 mm)	Green	Illuminated, Non-Illuminated	CR104PTY protected operators	CR104PTYZ156	\$6.00
1.58" (40.1 mm)	1.58" (40.1 mm)	Blue	Illuminated, Non-Illuminated	CR104PTY protected operators	CR104PTYZ157	\$6.00
1.58" (40.1 mm)	1.58" (40.1 mm)	White	Illuminated, Non-Illuminated	CR104PTY protected operators	CR104PTYZ158	\$6.00



CR104PXM03* Mushroom-Head, 1 3/8" dia.



CR104PXM06* Mushroom-Head, 2 3/8" dia.



CR104PXL06* Mushroom-Head, 1 3/8" dia., Illuminated



CR104PTZ15* Replacement heads for protected Mushroom-Heads



Pilot and Signaling Devices Heavy-Duty 30.5 mm Watertight/Oiltight Accessories

Section 9

CR104P

Accessories, Components and Kits
600 Volts max. AC/DC
10 Amperes Continuous



CR104PXM02* Non-Illuminated Knob

Selector Switch Knobs

Depth (max. projection front of panel)	Color	Illumination	Product Number	List Price GO-10P1
1.16" (29.5 mm)	Black	Non-Illuminated	CR104PXM02B	\$.75
1.16" (29.5 mm)	Red	Non-Illuminated	CR104PXM02R	\$.75
1.16" (29.5 mm)	Yellow	Non-Illuminated	CR104PXM02E	\$.75
1.16" (29.5 mm)	Green	Non-Illuminated	CR104PXM02G	\$.75
1.16" (29.5 mm)	Blue	Non-Illuminated	CR104PXM02L	\$.75
1.11" (28.2 mm)	Red	Illuminated	CR104PXL03R	\$ 4.20
1.11" (28.2 mm)	Yellow	Illuminated	CR104PXL03E	\$ 4.20
1.11" (28.2 mm)	Green	Illuminated	CR104PXL03G	\$ 4.20
1.11" (28.2 mm)	Blue	Illuminated	CR104PXL03L	\$ 4.20
1.11" (28.2 mm)	Amber	Illuminated	CR104PXL03M	\$ 4.20
1.11" (28.2 mm)	White	Illuminated	CR104PXL03W	\$ 4.20
1.11" (28.2 mm)	Clear	Illuminated	CR104PXL03C	\$ 4.20



CR104PXL03* Illuminated Knob

Lenses

Depth (max. projection front of panel)	Color	Illumination	For use with	Product Number	List Price GO-10P1
1.20" (30.5 mm)	Red	Illuminated	Push Buttons	CR104PXL05R	\$ 4.20
1.20" (30.5 mm)	Yellow	Illuminated	Push Buttons	CR104PXL05E	\$ 4.20
1.20" (30.5 mm)	Green	Illuminated	Push Buttons	CR104PXL05G	\$ 4.20
1.20" (30.5 mm)	Blue	Illuminated	Push Buttons	CR104PXL05L	\$ 4.20
1.20" (30.5 mm)	Amber	Illuminated	Push Buttons	CR104PXL05M	\$ 4.20
1.20" (30.5 mm)	White	Illuminated	Push Buttons	CR104PXL05W	\$ 4.20
1.20" (30.5 mm)	Clear	Illuminated	Push Buttons	CR104PXL05C	\$ 4.20
0.92" (23.4 mm)	Red		Standard Pilot Lights	CR104PXL01R	\$ 4.20
0.92" (23.4 mm)	Yellow		Standard Pilot Lights	CR104PXL01E	\$ 4.20
0.92" (23.4 mm)	Green		Standard Pilot Lights	CR104PXL01G	\$ 4.20
0.92" (23.4 mm)	Blue		Standard Pilot Lights	CR104PXL01L	\$ 4.20
0.92" (23.4 mm)	Amber		Standard Pilot Lights	CR104PXL01M	\$ 4.20
0.92" (23.4 mm)	White		Standard Pilot Lights	CR104PXL01W	\$ 4.20
0.92" (23.4 mm)	Clear		Standard Pilot Lights	CR104PXL01C	\$ 4.20
1.20" (30.5 mm)	Red		Push-to-test Pilot Lights	CR104PXL07R	\$ 4.20
1.20" (30.5 mm)	Yellow		Push-to-test Pilot Lights	CR104PXL07E	\$ 4.20
1.20" (30.5 mm)	Green		Push-to-test Pilot Lights	CR104PXL07G	\$ 4.20
1.20" (30.5 mm)	Blue		Push-to-test Pilot Lights	CR104PXL07L	\$ 4.20
1.20" (30.5 mm)	Amber		Push-to-test Pilot Lights	CR104PXL07M	\$ 4.20
1.20" (30.5 mm)	White		Push-to-test Pilot Lights	CR104PXL07W	\$ 4.20
1.20" (30.5 mm)	Clear		Push-to-test Pilot Lights	CR104PXL07C	\$ 4.20



CR104PXL05* Push Button Lens



CR104PXL01* Standard Pilot Light Lens



CR104PXL07* Push-to-Test Pilot Light Lens

Lens and Divider

Color	For use with	Product Number	List Price GO-10P1
White	Cluster Type Pilot Lights	CR104PXL02W	\$ 5.70
White	Cluster Type Pilot Lights	CR104PXL04W	\$ 5.70



CR104XL02* Cluster Type Lens and Divider



Pilot and Signaling Devices

Heavy-Duty 30.5 mm Watertight/Oiltight Accessories

Section 9

CR104P

Accessories, Components and Kits

600 Volts max. AC/DC

10 Amperes Continuous

Protective Caps

Description	Protective Caps Material	Color	Package Quantity	Product Number	List Price GO-10P1
Lever for combination (push/turn) units				CR104PXM07	\$6.00
Protective cap for standard push button	Neoprene rubber	Black		CR104PXB01B ¹	\$12.00
Protective cap for standard push button	Neoprene rubber	Red		CR104PXB01R ¹	\$12.00
Protective cap for standard push button	Neoprene rubber	Yellow		CR104PXB01E ¹	\$12.00
Protective cap for standard push button	Neoprene rubber	Green		CR104PXB01G ¹	\$12.00
Protective cap for standard push button	Silicone	Transparent		CR104PXB01C ¹	\$12.00
Protective cap for illuminated push button or push-to-test pilot light	Silicone	Transparent		CR104PXB02C ¹	\$18.00
Protective cap for knob-operated selector switches	Neoprene rubber with transparent actuator	Black		CR104PXB03C ¹	\$12.00
Protective cap for lever-operated selector switches	Neoprene rubber	Black		CR104PXB04B ¹	\$12.00
Painted plug for unused mounting hole				CR104PXG103 ²	\$6.00
Chrome plated plug for unused mounting hole				CR104PXG113 ³	\$6.00
Color cap kits for standard push buttons	1 Each: Red, Green, Yellow, Black		Pkg. of 4	CR104PXM01U	\$1.50 per package
Color cap kits for standard push buttons	1 Each: Brown, Blue, Orange, White		Pkg. of 4	CR104PXM01V	\$1.50 per package
Color cap kits for standard push buttons	Black		Pkg. of 10	CR104PXM01B ⁴	\$3.00
Color cap kits for standard push buttons	Red		Pkg. of 10	CR104PXM01R ⁴	\$3.00
Color cap kits for standard push buttons	Yellow		Pkg. of 10	CR104PXM01E ⁴	\$3.00
Color cap kits for standard push buttons	Green		Pkg. of 10	CR104PXM01G ⁴	\$3.00
Color cap kits for standard push buttons	White		Pkg. of 10	CR104PXM01W ⁴	\$3.00
Color cap kits for standard push buttons	Blue		Pkg. of 10	CR104PXM01L ⁴	\$3.00
Color cap kits for standard push buttons	Orange		Pkg. of 10	CR104PXM01M ⁴	\$3.00
Color cap kits for standard push buttons	Clear		Pkg. of 10	CR104PXM01C ⁴	\$3.00
Color cap kits for standard push buttons	Brown		Pkg. of 10	CR104PXM01N ⁴	\$3.00

¹Replaces octagonal ring.

²Recommended for use on painted steel enclosures.

³Recommended for use on stainless steel enclosures.

⁴This price per each, packaged in quantities of 10 of one color. Must be ordered in multiples of 10.



CR104PXM07
Lever for Combination (push/turn) Units



CR104PXB01*
For Standard Push Button



CR104PXB02C For Illuminated or
Push-to-Test Push Button



CR104PXB03C
For Knob-Operated Selector Switches



CR104PXB04B
For Lever-Operated Selector Switches



CR104PXG1_3
Plug for Unused Mounting Hole



CR104PXM01*
Color Cap Kits for Standard Push Buttons



Pilot and Signaling Devices Heavy-Duty 30.5 mm Watertight/Oiltight Accessories

Section 9

CR104P

Accessories, Components and Kits

600 Volts max. AC/DC

10 Amperes Continuous

Mushroom-Head Guards

Mushroom-Head Cap Diameter	Depth (max. projection front of panel)	Product Number	List Price GO-10P1
1 3/8", OD = 1.66" (42.2 mm)	1.38" (35.1 mm)	CR104PXG14	\$24.00
2 3/8", OD = 2.64" (67.1 mm)	1.38" (35.1 mm)	CR104PXG15	\$24.00



CR104PXG14 Mushroom-Head Guard

Cluster-Type Pilot Light Boots

Color	Package Quantity	Product Number	List Price GO-10P1
Yellow	4	CR104PXL08E ¹	\$0.37
Green	4	CR104PXL08G ¹	\$0.37
Blue	4	CR104PXL08L ¹	\$0.37
Red	4	CR104PXL08R ¹	\$0.37
1 Each: Yellow, Green, Blue, Red	Four, 1 each color	CR104PXL08T	\$1.50 per package



CR104PXL08* Cluster Light Boots

¹This price per each, packaged in quantities of 4. Must be ordered in multiples of 4.

Octagonal Operator Mounting Rings

For use with	Depth (max. projection front of panel)	Description	Product Number	List Price GO-10P1
Standard Flush Push Buttons, Push-to-test Pilot Lights, Mushroom-Head Push Buttons			CR104PXG01	\$1.20
Extended Push Buttons, Key-Operated Push Buttons, Push-to-latch/turn-to-release Push Buttons			CR104PXG02	\$1.20
Recessed Push Buttons	0.71" (19.0 mm)		CR104PXG03	\$1.20
Guarded Illuminated Push Buttons	1.20" (30.5 mm)		CR104PXG04	\$6.00
Combination (push/turn) Units			CR104PXG06	\$1.80
Non-illuminated Selector Switches, Joysticks, Potentiometer Operators			CR104PXG07	\$1.20
Standard Pilot Lights, Illuminated Selector Switches			CR104PXG08	\$1.20
Cluster Pilot Lights (2- and 4-lamp)			CR104PXG09	\$1.20
Octagonal Rings		CR104P octagonal ring wrench	CR104PXG104	\$18.00



CR104PXG01 Octagonal Mounting Ring for Standard Flush and Mushroom-Head Push Buttons, and Push to Test Pilot Lights



CR104PXG04 Octagonal Mounting Ring for Guarded Illuminated Push Buttons

Stainless Steel Flush Plate

Package Quantity	Product Number	List Price GO-10P8
1	CR2940BD201D	\$18.00



CR104PXG07 Octagonal Mounting Ring for Non-Illuminated Selector Switches, Joysticks and Potentiometer Operators



CR104PXG104 Octagonal Ring Wrench



Pilot and Signaling Devices Heavy-Duty 30.5 mm Watertight/Oiltight Accessories

Section 9

CR104P

Accessories, Components and Kits

600 Volts max. AC/DC

10 Amperes Continuous

Keys

Description	For use with	Product Number	List Price GO-10P1
Spare standard cylinder lock key	Key-Operated Selection Switches	CR104PXK95	\$3.60
Spare CH501 cylinder lock key	Key-Operated Selection Switches	CR104PXK51	\$3.60
1.5 mm hex key	Push-turn Switch Levers	CR104PXG107	\$1.50
2.0 mm hex key	Standard Push Buttons, Push-turn Mushroom-head Push Buttons	CR104PXG108	\$1.50
2.5 mm hex key	Potentiometer Operators, Push-turn Mushroom-head Push Buttons	CR104PXG109	\$1.50

Display Panels

Description	Product Number	List Price GO-10P1
Assembled display panel- 4 operators	CR104PD001B	\$130.00
Assembled display panel - 12 operators	CR104PD001A	\$300.00

Terminals

Description	Product Number	List Price GO-10P1
100 quick-connect terminals For 9-position joystick contact blocks	CR104PXG102	\$68.40

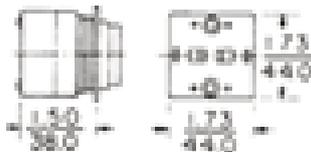
Modification Kits

Kit Type	Description	Product Number	List Price GO-10P1
Push-on/Push-off	Converts standard momentary operator to push-on/push-off	CR104PXF11 ^{1,2}	\$18.00
Maintained Mechanical Latch for Two Push Buttons	Makes one standard or 1 3/8" mushroom-head push button a latch, another a release	CR104PXF21 ²	\$18.00
Mechanical Interlock	Prevents simultaneous operation Prevents simultaneous operation	CR104PXF23 ²	\$18.00
Push-pull	Converts momentary mushroom-head push button to push-to-latch/pull-to-release	CR104PXF12 ²	\$18.00
Lockout Attachment	Padlockable device to hold standard flush or extended push button in depressed position	CR104PXG13	\$18.00
Locking Cover	Padlockable clear cover for standard knob-operated selector switch	CR104PXG16	\$18.00

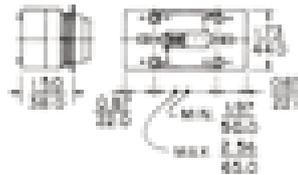
¹This kit can only be used with CR104PXC01 (NC) and/or CR104PXC10E (NO early closing contact blocks).

²Not for use with illuminated forms.

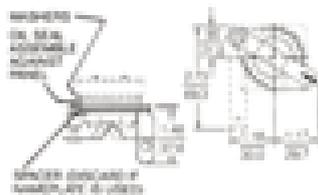
Outlines, Dimensions (mm) (For Estimating Only)



CR104PXF11, CR104PXF12
Modification Kit



CR104PXF21, CR104PXF23
Modification Kit



CR104PXG13
Modification Kit



CR104PD001A Display Panel
- 12 Operators



CR104PXF11 Modification Kit
- Push on/Push off



CR104PXF21 Modification Kit -
Maintained Mech. Latch for
2 Push Buttons



CR104PXG13 Lockout Attachment



CR104PXG16 Locking Cover



Pilot and Signaling Devices

Heavy-Duty 30.5 mm Watertight/Oiltight Accessories

Section 9

CR104P

Nameplates and Legend Inserts
600 Volts max. AC/DC
10 Amperes Continuous

Nameplates—Standard Lithographed

Unless otherwise indicated, all nameplates are black and available in Sizes 1-3 only. To select size, replace asterisk (*) in product number with appropriate digit from Sizes table.

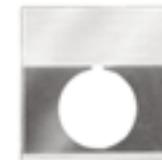
Nameplate Marking	Product Number	List Price GO-10P1
Blank (Sizes 1-5)	CR104PXN*B	\$1.80
Blank (Red, sizes 1-5)	CR104PXN*R	\$1.80
Blank (with round)	CR104PXN6E	\$2.50
CLOSE	CR104PXN*BP006	\$1.80
DECREASE	CR104PXN*BP007	\$1.80
DOWN	CR104PXN*BP008	\$1.80
EMERGENCY STOP (Red)	CR104PXN*RP009	\$1.80
FAST	CR104PXN*BP010	\$1.80
FORWARD	CR104PXN*BP011	\$1.80
HIGH	CR104PXN*BP012	\$1.80
IN	CR104PXN*BP013	\$1.80
INCH	CR104PXN*BP014	\$1.80
INCREASE	CR104PXN*BP017	\$1.80
JOG	CR104PXN*BP018	\$1.80
JOG FORWARD	CR104PXN*BP019	\$1.80
JOG REVERSE	CR104PXN*BP020	\$1.80
LEFT	CR104PXN*BP021	\$1.80
LOW	CR104PXN*BP022	\$1.80
LOWER	CR104PXN*BP023	\$1.80
OFF	CR104PXN*BP024	\$1.80
ON	CR104PXN*BP025	\$1.80
OPEN	CR104PXN*BP026	\$1.80
OUT	CR104PXN*BP027	\$1.80
POWER ON	CR104PXN*BP084	\$1.80
RAISE	CR104PXN*BP028	\$1.80
RESET	CR104PXN*BP030	\$1.80
RETURN	CR104PXN*BP031	\$1.80
REVERSE	CR104PXN*BP032	\$1.80
RIGHT	CR104PXN*BP033	\$1.80
RUN	CR104PXN*BP034	\$1.80
SLOW	CR104PXN*BP036	\$1.80
START	CR104PXN*BP037	\$1.80
START CYCLE	CR104PXN*BP038	\$1.80
STOP (Red)	CR104PXN*RP040	\$1.80
STOP CYCLE (Red)	CR104PXN*RP041	\$1.80
TEST	CR104PXN*BP043	\$1.80
UP	CR104PXN*BP047	\$1.80
EMERGENCY STOP PULL TO TEST (Red)	CR104PXN*RP048	\$1.80
PUSH TO STOP PULL TO START	CR104PXN*BP085	\$1.80
FOR REV	CR104PXN*BP050	\$1.80
HAND AUTO	CR104PXN*BP051	\$1.80
HIGH LOW	CR104PXN*BP052	\$1.80
JOG RUN	CR104PXN*BP053	\$1.80
LEFT RIGHT	CR104PXN*BP054	\$1.80
LOW HIGH	CR104PXN*BP055	\$1.80
LOWER RAISE	CR104PXN*BP056	\$1.80
OFF ON	CR104PXN*BP057	\$1.80
OPEN CLOSE	CR104PXN*BP058	\$1.80
RAISE LOWER	CR104PXN*BP059	\$1.80
REV FOR	CR104PXN*BP060	\$1.80
RUN JOG	CR104PXN*BP061	\$1.80
SAFE RUN	CR104PXN*BP062	\$1.80
SAFE STOP RUN	CR104PXN*BP063	\$1.80
SLOW FAST	CR104PXN*BP064	\$1.80
START JOG	CR104PXN*BP087	\$1.80
START STOP	CR104PXN*BP086	\$1.80
STOP START	CR104PXN*BP065	\$1.80
UP DOWN	CR104PXN*BP066	\$1.80
OFF COOLANT ON	CR104PXN*BP067	\$1.80
AUTO OFF-HAND	CR104PXN*BP083	\$1.80
FOR OFF REV	CR104PXN*BP068	\$1.80
FOR STOP REV	CR104PXN*BP069	\$1.80
HAND OFF AUTO	CR104PXN*BP070	\$1.80
JOG OFF RUN	CR104PXN*BP071	\$1.80
JOG SAFE RUN	CR104PXN*BP072	\$1.80
LOW OFF HIGH	CR104PXN*BP073	\$1.80
LOWER OFF RAISE	CR104PXN*BP074	\$1.80
MAN OFF AUTO	CR104PXN*BP076	\$1.80
OPEN OFF CLOSE	CR104PXN*BP077	\$1.80
REV OFF FOR	CR104PXN*BP079	\$1.80
SLOW OFF FAST	CR104PXN*BP080	\$1.80
SLOW STOP FAST	CR104PXN*BP081	\$1.80
POTENTIOMETER MARKINGS	CR104PXN*BP082	\$1.80
OFF AUTO	CR104PXN1BP090	\$1.80
ON OFF AUTO	CR104PXN1BP091	\$1.80
PUSH TO STOP - TURN TO RESET (Round w/Yellow Background)	CR104PXN6EP092	\$2.50
Yellow Background Emergency Stop	CR104PXN6EP009	\$2.50



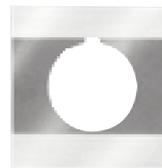
Standard (Size 1)



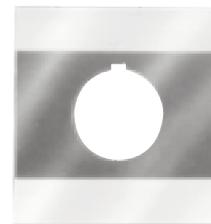
Large (Size 2)



Extra-large Automotive (Size 3)



Small Joystick (Size 4; available for XN*R and XN*B only)



Large Joystick (Size 5; available for XN*R and XN*B only)

Sizes*

Nameplate	Dimensions (H x W, Inches)	*Product No. Digit
Standard (Size 1)	1.98 x 1.93	1
Large (Size 2)	1.98 x 2.63	2
Extra-large, automotive (Size 3)	2.40 x 2.44	3 ¹
Small joystick (Size 4; available for XN*R and XN*B only)	2.32 x 2.32	4 ¹
Large joystick (Size 5; available for XN*R and XN*B only)	2.92 x 2.92	5 ¹

¹These nameplates do not fit standard enclosures.



Pilot and Signaling Devices

Heavy-Duty 30.5 mm Watertight/Oiltight Accessories

CR104P

Nameplates and Legend Inserts
 600 Volts max. AC/DC
 10 Amperes Continuous

Nameplates-Nonstandard Engraved

Note limitations on number of characters per field. Specify marking desired, by field, for each nameplate ordered. To select color, replace asterisk (*) in product number with **B** for black field and letters and with **R** for red field and letters. For overall dimensions by nameplate size, see Sizes table, page 9-40.

Style	Nameplate Size	Max. Characters per Field	Product Number	List Price GO-10P1
	1	Field 1: 13	CR104PXN1*B001	\$7.80
	2	Field 1: 16	CR104PXN2*B001	\$7.80
	3	Field 1: 10	CR104PXN3*B001	\$7.80
	1	Fields 1-2: 13	CR104PXN1*C001	\$7.80
	2	Fields 1-2: 15	CR104PXN2*C001	\$7.80
	3	Fields 1-2: 10	CR104PXN3*C001	\$7.80
	1	Field 1: 13; Field 2: 7	CR104PXN1*D001	\$7.80
	2	Field 1: 15; Field 2: 8	CR104PXN2*D001	\$7.80
	3	Field 1: 10; Field 2: 5	CR104PXN3*D001	\$7.80
	1	Field 1: 13; Field 2: 7	CR104PXN1*E001	\$7.80
	2	Field 1: 15; Field 2: 8	CR104PXN2*E001	\$7.80
	3	Field 1: 10; Field 2: 5	CR104PXN3*E001	\$7.80
	1	Fields 1-2: 7	CR104PXN1*F001	\$7.80
	2	Fields 1-2: 8	CR104PXN2*F001	\$7.80
	3	Fields 1-2: 5	CR104PXN3*F001	\$7.80
	1	Field 1: 13; Fields 2-3: 7	CR104PXN1*G001	\$7.80
	2	Field 1: 15; Fields 2-3: 8	CR104PXN2*G001	\$7.80
	3	Field 1: 10; Fields 2-3: 5	CR104PXN3*G001	\$7.80
	1	Fields 1-4: 5	CR104PXN1*H001	\$7.80
	2	Fields 1-4: 6	CR104PXN2*H001	\$7.80
	3	Fields 1-4: 4	CR104PXN3*H001	\$7.80
	4	Fields 1-2: 16	CR104PXN4*J001	\$7.80
	4	Fields 1-2: 16; Fields 3-4: 8	CR104PXN4*K001	\$7.80
	5	Fields 1-4: 18	CR104PXN5*L001	\$7.80
	5	Fields 1-4: 18; Fields 5-8: 11	CR104PXN5*M001	\$7.80
	1	Field 1: 13	CR104PXN1*N001	\$7.80
	2	Field 1: 16	CR104PXN2*N001	\$7.80
	3	Field 1: 10	CR104PXN3*N001	\$7.80

Legend Inserts

Legend insert kits for standard push buttons with clear caps feature three 2-sided inserts per kit.

Product Number	List Price GO-10P1
CR104PXG101	\$1.80

Insert	Side 1	Side 2
1		
2		
3		

Legend Inserts



Pilot and Signaling Devices Heavy-Duty 30.5 mm Watertight/Oiltight Kitted Operators

Section 9

CR104P

Hot Buttons

Push Buttons

600 Volts max. AC/DC

10 Amperes Continuous

Description

Hot Buttons make it easier and faster than ever for you to get the most popular push buttons, pilot lights and selector switches. GE has taken its proven CR104P Heavy-Duty Oiltight push buttons, matched them with their logical and most often-used contacts and nameplates, and put them together. One product number, one box, one price.



Standard Non-Illuminated Push Button



Standard Illuminated Push Button with Guard



Mushroom-Head Non-Illuminated Push Button



Mushroom-Head Non-Illuminated Push-Pull Push Button



Mushroom-Head Non-Illuminated Push-Turn-to-Release Push Button



Mushroom-Head Illuminated Push Button

Standard Flush Non-Illuminated

Contact Configuration	Marking	Color	Product Number	List Price GO-10P1
1NO	START	1 Each: Red, Green, Yellow, Black	CR104PBG10U1A1	\$27.00
1NO	RUN	1 Each: Red, Green, Yellow, Black	CR104PBG10U1A2	\$27.00
1NO	ON	1 Each: Red, Green, Yellow, Black	CR104PBG10U1A3	\$27.00
1NC	STOP	1 Each: Red, Green, Yellow, Black	CR104PBG01U1A1	\$27.00
1NC	OFF	1 Each: Red, Green, Yellow, Black	CR104PBG01U1A2	\$27.00

Standard Extended Illuminated

Guard	Contact Configuration	Marking	Color	Voltage	Product Number	List Price GO-10P1
with Guard	1NO-1NC	START	Green	Transformer 120V	CR104PBT11G3S2A1	\$90.00
with Guard	1NO-1NC	RUN	Green	Transformer 120V	CR104PBT11G3S2A2	\$90.00
with Guard	1NO-1NC	ON	Green	Transformer 120V	CR104PBT11G3S2A3	\$90.00
with Guard	1NO-1NC	STOP	Red	Transformer 120V	CR104PBT11R3S2A1	\$90.00
with Guard	1NO-1NC	OFF	Red	Transformer 120V	CR104PBT11R3S2A2	\$90.00

Mushroom-Head Non-Illuminated

Head Size	Contact Configuration	Marking	Color	Product Number	List Price GO-10P1
1 3/8" dia.	1NC	EMERGENCY STOP	Red	CR104PBM01R5A	\$63.00

Special Function Non-Illuminated

Special Function Type	Contact Configuration	Marking	Color	Product Number	List Price GO-10P1
Push-Pull	1NC	PUSH TO STOP PULL TO START	Red	CR104PBM01R5CA1	\$63.00
Push-Pull	1NC	EMERGENCY STOP	Red	CR104PBM01R5CA2	\$63.00
Push-Turn-to-Release	1NC	EMERGENCY STOP	Red	CR104PTR20A0R01A	\$63.00

Special Function Illuminated

Special Function Type	Contact Configuration	Marking	Color	Voltage	Product Number	List Price GO-10P1
Push-Pull	1NO-1NC	PUSH TO STOP PULL TO START	Red	Transformer 120 V	CR104PBT11R5C2A1	\$102.00
Push-Pull	1NO-1NC	EMERGENCY STOP	Red	Transformer 120 V	CR104PBT11R5C2A2	\$102.00



Pilot and Signaling Devices

Heavy-Duty 30.5 mm Watertight/Oiltight Kitted Operators

Section 9

CR104P

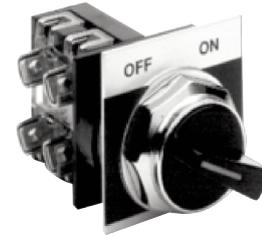
Hot Buttons

600 Volts max. AC/DC

10 Amperes Continuous

Knob Selector Switches

Position Type	Marking	Contact Configuration	Product Number	List Price GO-10P1
2-Position Maintained	OFF-ON	1NO-1NC	CR104PSG21B91A	\$42.00
3-Position Maintained	HAND-OFF-AUTO	1NO-1NC	CR104PSG34B91A	\$42.00



2-Position Maintained Selector Switch

Standard Pilot Lights

Power Supply Type	Supply Voltage	Lamp Type	Marking	Color	Product Number	List Price GO-10P1
Transformer	120V 50/60 Hz	Incand., 6V, #755	ON	Red	CR104PLG32RA1	\$66.00
Full Voltage	120V 50/60 Hz	Incand., 130V	ON	Red	CR104PLG22RA1	\$54.00
Transformer	120V 50/60 Hz	Incand., 6V, #755	OFF	Red	CR104PLG32RA2	\$66.00
Full Voltage	120V 50/60 Hz	Incand., 130V	OFF	Red	CR104PLG22RA2	\$54.00
Transformer	120V 50/60 Hz	Incand., 6V, #755	OFF	Green	CR104PLG32GA2	\$66.00
Full Voltage	120V 50/60 Hz	Incand., 130V	OFF	Green	CR104PLG22GA2	\$54.00
Transformer	120V 50/60 Hz	Incand., 6V, #755	ON	Green	CR104PLG32GA1	\$66.00
Full Voltage	120V 50/60 Hz	Incand., 130V	ON	Green	CR104PLG22GA1	\$54.00



3-Position Maintained Selector Switch

Push to Test Pilot Lights

Power Supply Type	Supply Voltage	Lamp Type	Contact Configuration	Marking	Color	Product Number	List Price GO-10P1
Transformer	120V 50/60 Hz	Incand., 6V, #755	1NO-1NC	ON	Red	CR104PLT32RA	\$84.00
Full Voltage	120V 50/60 Hz	Incand., 130V	1NO-1NC	ON	Red	CR104PLT22RA	\$72.00
Transformer	120V 50/60 Hz	Incand., 6V, #755	1NO-1NC	OFF	Green	CR104PLT32GA	\$84.00
Full Voltage	120V 50/60 Hz	Incand., 130V	1NO-1NC	OFF	Green	CR104PLT22GA	\$72.00



Standard Pilot Light

Hot Buttons Display Rack

This convenient display allows Hot Buttons to be easily selected. The display may be a freestanding counter display or may be hung on the wall. The display (28"W x 15"H x 5"D) allows the distributor to showcase Hot Buttons to the customer and makes easy selection of the desired function. The display has a clear front, which allows ready view for stock replenishment. Also included are an attractive poster and a counter literature rack with promotional leaflets.

Product Number	List Price GO-10P1
CR104PHBDISPLAY	\$200.00



Press-to-Test Pilot Light



Hot Buttons Display Rack



Pilot and Signaling Devices Heavy-Duty 30.5 mm Watertight/Oiltight Accessories

Section 9

CR104P

Enclosures and Stations
600 Volts Max. AC/DC
10 Amperes Continuous

Product Number Selection Instructions

CR104PE enclosures are available in painted sheet steel or in stainless steel, with from one to 25 operator openings. Choose the enclosure only or the enclosure assembled with your choice of unwired operators.

Assembled stations, as well as unassembled, are available in the following NEMA types:

- NEMA 1 (CR104PEX11C)
- NEMA 12 and 13 (CR104PEG11C)
- NEMA 4, 4X, 12, and 13 (CR104PES11C)

Inclusion of a CR104PTP push button does not allow a NEMA 3, 3R, 4, or 4X rating.

Some common combinations of devices may be ordered by complete part number for NEMA enclosures as listed in the table below.

One-step selection and pricing.



1 Unit Painted Steel Station

Assembled with Push Buttons and Fixed Legends NEMA Type 1

Units per Station	Nameplate Marking	Color	Other Features ¹	Product Number	List Price GO-10P1
1	START	Green		CR104PEX11C	\$84.00
1	STOP	Red	Extended button	CR104PEX11D	\$84.00
1	EMERGENCY STOP	Red	Red Mushroom-Head	CR104PEX11S	\$102.00
1	JOG	Black		CR104PEX11R	\$84.00
1	HAND-AUTO	Black	2-position selector switch	CR104PEX11T	\$90.00
1	FORWARD-REVERSE	Black	2-position selector switch	CR104PEX11W	\$90.00
1	OFF-ON	Black	2-position selector switch	CR104PEX11B1	\$90.00
1	OPEN-CLOSE	Black	2-position selector switch	CR104PEX11C1	\$90.00
1	HAND-OFF-AUTO	Black	3-position selector switch	CR104PEX11E	\$90.00
2	START-STOP	Green - Red	Extended red stop button	CR104PEX12G	\$122.00
2	FORWARD-REVERSE	Black - Black		CR104PEX12H	\$122.00
2	RAISE-LOWER	Black - Black		CR104PEX12J	\$122.00
2	OPEN-CLOSE	Black - Black		CR104PEX12K	\$122.00
2	START-STOP	Green - Red	Maintained contact button	CR104PEX12D1	\$122.00
3	FORWARD-REVERSE-STOP	Black - Black - Red	Extended red stop button	CR104PEX13M	\$170.00
3	RAISE-LOWER-STOP	Black - Black - Red	Extended red stop button	CR104PEX13N	\$170.00
3	OPEN-CLOSE-STOP	Black - Black - Red	Extended red stop button	CR104PEX13P	\$170.00
3	START-STOP	Green - Red	FV 110-125V red light at top; extended red stop button	CR104PEX13E1	\$188.00



2 Unit Station

Assembled with Push Buttons and Fixed Legends NEMA Type 12

Units per Station	Nameplate Marking	Color	Other Features ¹	Product Number	List Price GO-10P1
1	START	Green		CR104PEG11C	\$96.00
1	STOP	Red	Extended button	CR104PEG11D	\$96.00
1	EMERGENCY STOP	Red	Red Mushroom-Head	CR104PEG11S	\$114.00
1	JOG	Black		CR104PEG11R	\$96.00
1	HAND-AUTO	Black	2-position selector switch	CR104PEG11T	\$102.00
1	FORWARD-REVERSE	Black	2-position selector switch	CR104PEG11W	\$102.00
1	OFF-ON	Black	2-position selector switch	CR104PEG11B1	\$102.00
1	OPEN-CLOSE	Black	2-position selector switch	CR104PEG11C1	\$102.00
1	HAND-OFF-AUTO	Black	3-position selector switch	CR104PEG11E	\$102.00
2	START-STOP	Green - Red	Extended red stop button	CR104PEG12G	\$138.00
2	FORWARD-REVERSE	Black - Black		CR104PEG12H	\$138.00
2	RAISE-LOWER	Black - Black		CR104PEG12J	\$138.00
2	OPEN-CLOSE	Black - Black		CR104PEG12K	\$138.00
2	START-STOP	Green - Red	Maintained contact button	CR104PEG12D1	\$138.00
3	FORWARD-REVERSE-STOP	Black - Black - Red	Extended red stop button	CR104PEG13M	\$186.00
3	RAISE-LOWER-STOP	Black - Black - Red	Extended red stop button	CR104PEG13N	\$186.00
3	OPEN-CLOSE-STOP	Black - Black - Red	Extended red stop button	CR104PEG13P	\$186.00
3	START-STOP	Green - Red	FV 110-125V red light at top; extended red stop button	CR104PEG13E1	\$204.00

¹All units include 1NO-1NC contact, each device.



Nameplates: See pages 9-40 to 9-41
Technical Data: See pages 9-48 to 9-49
Drilling Plan and Dimensions: See pages 9-49

Pilot and Signaling Devices

Heavy-Duty 30.5 mm Watertight/Oiltight Accessories

CR104P

Enclosures and Stations
 600 Volts max. AC/DC
 10 Amperes Continuous

To order 104P Push button enclosures, choose the product number in the following tables. Then specify operator by hole number (see page 9-47) as indicated in the corresponding diagram. Add all the operator list prices to the assembled, unwired station to arrive at the total list price, GO-10P1, for your unit.

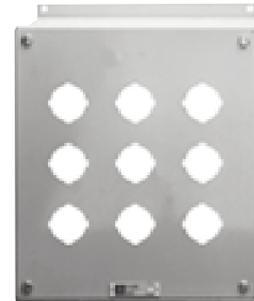
Assembled Unwired—Surface Mounted

Enclosure Type	Enclosure Material	Enclosure Holes	Product Number	List Price GO-10P1
NEMA Type 1	Sheet Steel	1	CR104PEX11B	\$48.00
NEMA Type 1	Sheet Steel	2	CR104PEX12B	\$56.00
NEMA Type 1	Sheet Steel	3	CR104PEX13B	\$68.00
NEMA Type 1	Sheet Steel	4	CR104PEX14B ¹	\$100.00
NEMA Type 1, 3, 3R, 12, 13	Painted Sheet Steel	1	CR104PEG11B	\$60.00
NEMA Type 1, 3, 3R, 12, 13	Painted Sheet Steel	2	CR104PEG12B	\$72.00
NEMA Type 1, 3, 3R, 12, 13	Painted Sheet Steel	3	CR104PEG13B	\$84.00
NEMA Type 1, 3, 3R, 12, 13	Painted Sheet Steel	4	CR104PEG14B ¹	\$102.00
NEMA Type 1, 3, 3R, 12, 13	Painted Sheet Steel	4	CR104PEG22B	\$102.00
NEMA Type 1, 3, 3R, 12, 13	Painted Sheet Steel	6	CR104PEG23B	\$126.00
NEMA Type 1, 3, 3R, 12, 13	Painted Sheet Steel	9	CR104PEG33B	\$162.00
NEMA Type 1, 3, 3R, 12, 13	Painted Sheet Steel	12	CR104PEG34B	\$204.00
NEMA Type 1, 3, 3R, 12, 13	Painted Sheet Steel	16	CR104PEG44B	\$258.00
NEMA Type 1, 3, 3R, 12, 13	Painted Sheet Steel	20	CR104PEG45B	\$312.00
NEMA Type 1, 3, 3R, 12, 13	Painted Sheet Steel	25	CR104PEG55B	\$372.00
NEMA Type 3, 3R, 4, 4X, 12, 13	Stainless Steel	1	CR104PES11B	\$126.00
NEMA Type 3, 3R, 4, 4X, 12, 13	Stainless Steel	2	CR104PES12B	\$138.00
NEMA Type 3, 3R, 4, 4X, 12, 13	Stainless Steel	3	CR104PES13B	\$186.00
NEMA Type 3, 3R, 4, 4X, 12, 13	Stainless Steel	4	CR104PES14B ¹	\$240.00
NEMA Type 3, 3R, 4, 4X, 12, 13	Stainless Steel	4	CR104PES22B	\$240.00
NEMA Type 3, 3R, 4, 4X, 12, 13	Stainless Steel	6	CR104PES23B	\$348.00
NEMA Type 3, 3R, 4, 4X, 12, 13	Stainless Steel	9	CR104PES33B	\$438.00
NEMA Type 3, 3R, 4, 4X, 12, 13	Stainless Steel	12	CR104PES34B	\$534.00
NEMA Type 3, 3R, 4, 4X, 12, 13	Stainless Steel	16	CR104PES44B	\$702.00
NEMA Type 3, 3R, 4, 4X, 12, 13	Stainless Steel	20	CR104PES45B	\$792.00
NEMA Type 3, 3R, 4, 4X, 12, 13	Stainless Steel	25	CR104PES55B	\$1032.00

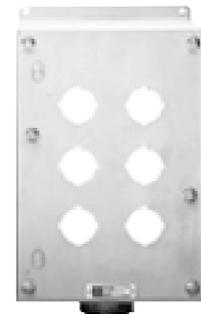
Does not include push buttons: see ordering instructions above.

Price listed for Assembled Unwired Station is for devices.

¹Four vertical openings.



Painted Sheet Steel Enclosure



Stainless Steel Enclosure



Pilot and Signaling Devices Heavy-Duty 30.5 mm Watertight/Oiltight Accessories

Section 9

CR104P

Enclosures and Stations
600 Volts max. AC/DC
10 Amperes Continuous

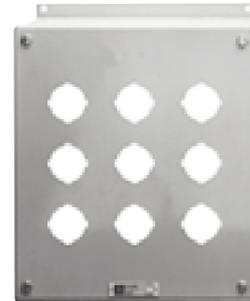
To order 104P Push button enclosures, choose the product number in the following tables. Then specify operator by hole number (see page 9-47) as indicated in the corresponding diagram. Add all the operator list prices to the assembled, unwired station to arrive at the total list price, GO-10P1, for your unit.

Enclosure Only—Surface Mounted

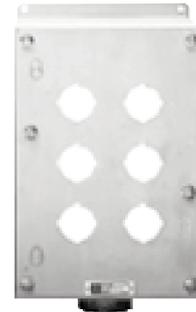
Enclosure Type	Enclosure Material	Enclosure Holes	Product Number	List Price GO-10P1
NEMA Type 1	Sheet Steel	1	CR104PEX11	\$30.00
NEMA Type 1	Sheet Steel	2	CR104PEX12	\$32.00
NEMA Type 1	Sheet Steel	3	CR104PEX13	\$38.00
NEMA Type 1	Sheet Steel	4	CR104PEX14 ¹	\$64.00
NEMA Type 1, 3, 3R, 12, 13	Painted Sheet Steel	1	CR104PEG11	\$42.00
NEMA Type 1, 3, 3R, 12, 13	Painted Sheet Steel	2	CR104PEG12	\$48.00
NEMA Type 1, 3, 3R, 12, 13	Painted Sheet Steel	3	CR104PEG13	\$54.00
NEMA Type 1, 3, 3R, 12, 13	Painted Sheet Steel	4	CR104PEG14 ¹	\$66.00
NEMA Type 1, 3, 3R, 12, 13	Painted Sheet Steel	4	CR104PEG22	\$66.00
NEMA Type 1, 3, 3R, 12, 13	Painted Sheet Steel	6	CR104PEG23	\$78.00
NEMA Type 1, 3, 3R, 12, 13	Painted Sheet Steel	9	CR104PEG33	\$96.00
NEMA Type 1, 3, 3R, 12, 13	Painted Sheet Steel	12	CR104PEG34	\$120.00
NEMA Type 1, 3, 3R, 12, 13	Painted Sheet Steel	16	CR104PEG44	\$150.00
NEMA Type 1, 3, 3R, 12, 13	Painted Sheet Steel	20	CR104PEG45	\$180.00
NEMA Type 1, 3, 3R, 12, 13	Painted Sheet Steel	25	CR104PEG55	\$210.00
NEMA Type 3, 3R, 4, 4X, 12, 13	Stainless Steel	1	CR104PES11	\$108.00
NEMA Type 3, 3R, 4, 4X, 12, 13	Stainless Steel	2	CR104PES12	\$114.00
NEMA Type 3, 3R, 4, 4X, 12, 13	Stainless Steel	3	CR104PES13	\$156.00
NEMA Type 3, 3R, 4, 4X, 12, 13	Stainless Steel	4	CR104PES14 ¹	\$204.00
NEMA Type 3, 3R, 4, 4X, 12, 13	Stainless Steel	4	CR104PES22	\$204.00
NEMA Type 3, 3R, 4, 4X, 12, 13	Stainless Steel	6	CR104PES23	\$300.00
NEMA Type 3, 3R, 4, 4X, 12, 13	Stainless Steel	9	CR104PES33	\$372.00
NEMA Type 3, 3R, 4, 4X, 12, 13	Stainless Steel	12	CR104PES34	\$450.00
NEMA Type 3, 3R, 4, 4X, 12, 13	Stainless Steel	16	CR104PES44	\$594.00
NEMA Type 3, 3R, 4, 4X, 12, 13	Stainless Steel	20	CR104PES45	\$660.00
NEMA Type 3, 3R, 4, 4X, 12, 13	Stainless Steel	25	CR104PES55	\$840.00

Does not include push buttons: see ordering instructions above.

¹Four vertical openings.



Painted Sheet Steel Enclosure



Stainless Steel Enclosure



Nameplates: See pages 9-40 to 9-41
 Technical Data: See pages 9-48 to 9-49
 Drilling Plan and Dimensions: See pages 9-49

Pilot and Signaling Devices Heavy-Duty 30.5 mm Watertight/Oiltight Accessories

Section 9

CR104P

Enclosures

Outlines and Dimensions in. (mm) (For Estimating Only)

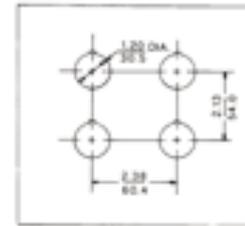
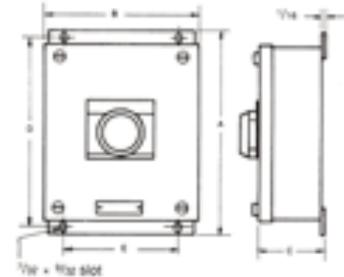
600 Volts max. AC/DC

10 Amperes Continuous

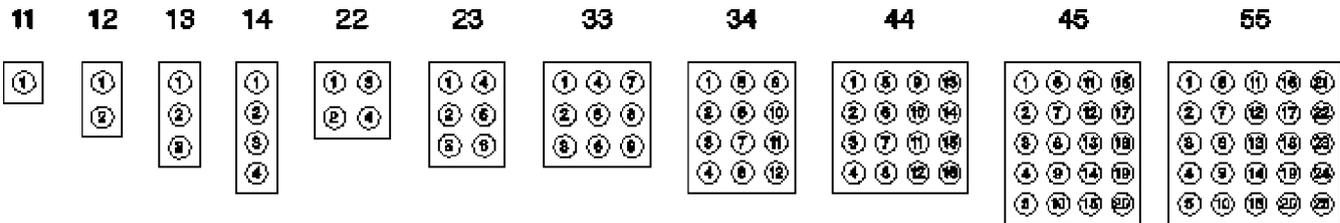
Enclosure Dimensions

Enclosure Holes	Dimension A in. (mm)	Dimension B in. (mm)	Dimension C in. (mm)	Dimension D in. (mm)	Dimension E in. (mm)	Hub Dimension (in)
1	5.50 (139.7)	3.50 (88.9)	4.25 (108.0)	5.00 (127.0)	2.38 (60.4)	0.75
2	7.75 (196.8)	3.50 (88.9)	4.25 (108.0)	7.25 (184.2)	2.38 (60.4)	0.75
3	10.00 (254.0)	3.50 (88.9)	4.25 (108.0)	9.50 (241.3)	2.38 (60.4)	0.75
4 ¹	13.38 (339.8)	3.50 (88.9)	4.25 (108.0)	12.88 (327.2)	2.38 (60.4)	1
4	8.25 (209.6)	6.50 (165.1)	4.25 (108.0)	7.75 (196.8)	5.38 (136.6)	1
6	10.50 (266.7)	7.00 (177.8)	4.25 (108.0)	10.00 (254.0)	5.88 (149.4)	1.25
9	10.50 (266.7)	9.25 (235.0)	4.25 (108.0)	10.00 (254.0)	8.19 (208.0)	1.5
12	12.75 (323.8)	9.25 (235.0)	4.25 (108.0)	12.25 (311.2)	8.19 (208.0)	1.5
16	12.75 (323.8)	11.50 (292.1)	4.25 (108.0)	12.25 (311.2)	10.38 (263.6)	1.5
20	15.00 (381.0)	11.50 (292.1)	4.25 (108.0)	14.50 (368.3)	10.38 (263.6)	1.5
25	15.00 (381.0)	13.75 (249.2)	4.25 (108.0)	14.50 (368.3)	12.63 (320.8)	1.5

¹Four vertical openings.



Enclosure Dimensions and
Hole Spacing in Listed Standard
Enclosures



Product Numbers: Position of Units CR104PEG__ or S __ __ *

*Add Suffix B for assembled unwired station.



Pilot and Signaling Devices

Heavy-Duty 30.5 mm Watertight/Oiltight Push Buttons

CR104P

Section 9

Technical Data
600 Volts Max. AC/DC
10 Amperes Continuous

General Specifications

Standards and Approvals	UL Listed—File Number E2403 C-UL-CSA Cert. LR—15492 NEMA—ICS2—1988, IEC 947.5.1, VDE 0660	
Enclosure Ratings	All units are suitable for use in NEMA Type 1, 3, 3R, 4, 4X, 12, and 13 applications when mounted in enclosures rated for those same applications. For some NEMA 4X applications, protective caps will provide improved corrosion resistance.	
Finger Protection at Terminals	IP2X according to IEC 529 Terminal identification per CENELEC EN 50013	
Operating temperature range	-25° to +70°C, -13° to +158°F	
Storage Temperature Range	-40° to +70°C, -40° to +158°F	
Climate Specs	Temperature	Relative Humidity
Climate Type		
Temperate	74°F (23°C)	50%
Wet	74°F (23°C)	83%
Hot Wet	104°F (40°C)	92%
Variable Wet	74° to 104°F (23° to 40°C)	83%-92%
Resistance to Shock	50g, 11ms	
Frequency Range	1-100 Hz	
Vibration Amplitude	1-13.2 Hz—displacement ±1mm, 13.2-100 Hz—acceleration ±0.7g	
Operating Force Without Contact Blocks - Recessed	1.625 lb./f.	
Operating Force Without Contact Blocks Flush	2.5 lb./f.	
Operating Force With 1 NO Contact Block - Recessed	2.5 lb./f.	
Operating Force With 1 NO Contact Block - Flush	2.875 lb./f.	
Operating Force With 2 NO Contact Blocks - Recessed	3.5 lb./f.	
Operating Force With 2 NO Contact Blocks Flush	3.5 lb./f.	
Operating Force With 3 NO Contact Blocks - Recessed	4.0 lb./f.	
Operating Force With 3 NO Contact Blocks Flush	4.375 lb./f.	
Wire Size	22-12 AWG stranded or solid copper wire	
Torque Requirements	Terminal screws: 10-14 in./lb. Contact block mounting screws: 10-14 in./lb.	

Contacts

Electrical Reliability Data	With indicating light loads, tested for 5,000,000 operations at 40mA and 115 V resistive loads with no failures observed.
Thermal Current	10A per IEC 947 5-1
Insulation Voltage	Ui = 660 Vac/dc
Protection from Electrical Shock	Class 1 per IEC 536 for metal operators; Class II (double insulation) per IEC 536 for plastic operators
Insulation Category	Group C per VDE 0110
Dielectric strength	2500 V
Short-circuit protection	10A time-delay fuse gG per IEC 269.1 & 269.3
Finger Safe Terminals	Available for silver and gold single- and double-circuit contact blocks, as components and as assembled versions.
Contact Characteristics	NC: slow make, double break (positive opening) NO: slow make, double break Opposite polarity Self-cleaning below 300 volts NO and NC snap action (for use on joysticks)

Pilot Duty Ratings for Standard Contact Blocks

A600 (maximum make volt-amperes = 7200; maximum break volt-amperes = 720; PF = .25)							
Volts (V)	12	24	48	60	120	240	480 600
Continuous (A)	10	10	10	10	10	10	10
Making (A)	60	60	60	60	60	30	15 12
Breaking (A)	10	10	10	10	6	3	1.5 1.2

P300 (maximum make or break volt-amperes = 69)							
Volts (V)	12	24	48	60	125	250	300
Continuous (A)	5	5	5	5	5	5	5
Making (A)	5	5	2.8	2.3	1.1	0.55	0.46
Breaking (A)	5	5	2.8	2.3	1.1	0.55	0.46

Reed Switch Block Ratings

AC Operating Voltage	2-120 Vac
AC Maximum Continuous Current	.001-.15A
AC Resistive Watts	8 VA maximum
DC Operating Voltage	2-30 Vdc
DC Maximum Continuous Current	.001-.15A
DC Resistive Watts	4.5 VA maximum

Power Supply Resistor Values

Resistor Value @ 120 Vac/dc	750 ohms ±5%, 5 watts, 2 resistors in series
Resistor Value @ 240 Vac/dc	2700 ohms ±5%, 5 watts, 2 resistors in series



Pilot and Signaling Devices

Heavy-Duty 30.5 mm Watertight/Oiltight Push Buttons

Section 9

CR104P

Technical Data

600 Volts Max. AC/DC

10 Amperes Continuous

Materials List

Component	Material
Cap (non-illuminated)	Unfilled polyacetal
Cap (illuminated)	Polycarbonate
Metal housings	Chromium- or zinc-plated zinc ingot
Plastic housing	Nylon
White plunger	Unfilled polyacetal
Flange	Nylon
Grease	Good for temperatures of -42° to +204°C
Plate spacer	Polycarbonate
Locking plate	Chromium-plated zinc ingot
Locking ring	Chromium-plated zinc ingot
Hexagonal ring	Chromium-plated zinc ingot
Contact block housing	Nylon
Cam	Unfilled Polyacetal
Cam follower	Unfilled Polyacetal
Joystick protective housings	Vinyl nitrile
Terminal screw size	#6-32
Gasket	Vinyl nitrile
Contacts	Silver alloy
Push button guards	Chromium-plated zinc ingot
Wobble stick	Aluminum
Key	Brass
Protective caps	Silicon rubber
Locking attachment	Polycarbonate

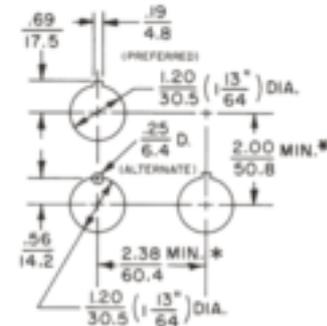
Mechanical Life Ratings

Operator	Number of Operations
Standard push buttons	3,000,000
Illuminated push buttons (including push on/push off)	1,000,000
Momentary mushroom-head push buttons	3,000,000
Maintained and push-to-latch, turn-to-release mushroom-head push buttons	500,000
Selector switches (all)	1,000,000
Joysticks	500,000
Toggle switches	500,000
Wobble switches	1,000,000
Key-operated push buttons	500,000
Selector push buttons	1,000,000
Time-delay push buttons	1,000,000

Electrical Life Ratings

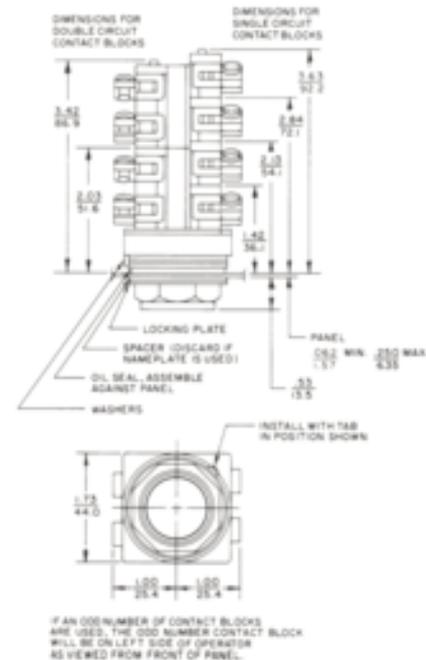
Operator	Number of Operations
Push buttons	5,000,000
Selector switches	500,000

Outlines, Dimensions (in./mm) (For Estimating Only)



Drilling Plan Dual Dimensions

CR104P push buttons are designed for front mounting, with or without nameplates, in 1 13/64" (30.5 mm) diameter holes. Operators are provided with an octagonal ring, spacers, and gaskets to ensure an oiltight, uniform front protrusion. Acceptable Panel Thickness: 0.04 - 0.25 inches (1.02 - 6.35 mm)



Outline and Dimensions

For dimensional information on other operators, contact nearest GE Representative. Manufacturing tolerances apply to all untoleranced dimensions.

Panel thickness (inches)	No. of washers required
.062	3
.093	2
.125	2
.188	1
.25	0

