CR104P
Heavy-duty, oiltight push buttons
CR104P Push Buttons

Great looks shine in modern, industrial design.
• Vibrantly colored caps and knobs easily wipe clean of oils and contaminants.
• Matching chrome-plated locking and mounting rings for a uniform appearance and corrosion resistance.
• Molded-in pointers on selector switches that won’t wear off.
• Bright, focused optics on indicating lights make them highly visible from the front as well as the sides.

All this comes together in the CR104P line of push buttons from GE. And when your push buttons look good, your panels look good and that makes you look good, too.

Those who actually use them appreciate the CR104P’s positive touch, crisp action and ease of operation. The push buttons feel solid. Selector switches offer easy-to-grip knobs and a positive snap. Every element demonstrates a rugged, heavy-duty nature and purpose. These things make a real difference in everyday use.
Full line, modular design, versatile application:
GE delivers all the operators you need. Push buttons and selector switches, standard and illuminated, indicating lights and special forms. They meet worldwide standards.

One push button operator, three mounting rings and a variety of colored caps: Modularity means you can stock minimum inventory and still be able to create a huge number of possibilities. It takes only a few seconds and no tools at all to create virtually any combination of color and mounting style.

The same principle applies to selector switches. The base handle supplies the permanent white pointer. You just snap on any of a variety of caps to get the color you need.

Hot Buttons
Ready to go right now
Right now, you can get thirty of the most popular push buttons, pilot lights and selector switches, paired with their logical and most often-used contacts and nameplates, in one box with one catalog number and one price. It’s a fast, convenient way to get many CR104Ps right now!
There’s a CR104P operators for every operation.
All CR104P operators are heavy-duty and oiltight. Complete push button units are factory assembled, ready for mounting, or you can order only the specific parts and accessories you need.

Push buttons

The standard push button comes with one of eight bright cap colors or clear. It’s a simple thing to change the cap color, and available kits let you maintain large flexibility with small inventory. That’s true, too, with the interchangeable mounting rings, which make it easy to configure the same push button as recessed, flush or extended.

Mushroom head push buttons come in either 1 3/8” or 2 3/8” diameters and in red, yellow, green or black. Their high visibility makes them ideal for priority functions. A push-to-latch/turn-to-reset form features an embossed arrow to clarify the reset action.

A special push-pull mushroom head operator (CR104PTY) is rugged enough for such harsh environments as automotive assembly, mining and steel mills. Its metal outer ring enhances both durability and appearance. Choose illuminated and non-illuminated; 2-position maintained, 3-position momentary and momentary/maintained; and caps and lenses in 7 different colors.

Cylinder-lock forms add security and are lockable in your choice of positions: free, depressed or both and in press lock/key release forms. So you control what you want to control.

Selector switches

Snap on. Snap off. When you turn a CR104P selector switch, its positive snap lets you know, for sure, what position you’re in. And the molded-in white pointer never wears off. Choose 2-, 3- or 4-position switches with maintained or spring return combinations.

Easy-grip knob selector switches come in black, red, green, yellow or blue. Knobs can be easily changed out, and special order color knobs are available.

Big wing lever selector switches – in black or chrome-plated – are easy to see and easy to handle, even with gloved hands.

Keyed cylinder-lock types protect against unauthorized operations.

For special applications, choose combination push-turn switches in 2- or 3-position forms. The knob is easy to turn, and the button comes in black, red, green or yellow. You can even change it into a lever-operated switch.
Illuminated forms
Light up your control board with shining red, green, yellow, amber, blue, white and clear push button, mushroom head and selector switch operators, in full voltage, transformer and resistor forms.

Illuminated push buttons are available in momentary, maintained push-pull, and push-push (push once to activate, push again to release). They can also be equipped with a dual input function for remote-test operation.

Illuminated selector switches feature a knob-shaped plastic lens that fits over the lamp to give bright, luminous color. They’re available in 2- or 3-position models.

Indicating lights
The purpose of indicating lights is to be able to see what’s going on. CR104P indicating lights fulfill that purpose clearly, with bright optics and visibility from both front and sides. Several rugged, long-life types are available. Choose green, yellow, amber, blue, white or clear lenses and full voltage, transformer or resistor types.

Standard indicating lights provide the bright annunciation required in industrial applications.

A dual input illuminated push button and indicating light allows 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.

Cluster lights deliver two or four indicating light functions in the space of a single unit. A divider separates the white lens into sectors, and red, green, yellow or blue silicone rubber caps add vibrant color.

Push-to-test indicating lights allow the lamp to be checked simply by pushing the lens, which cuts the time needed to check lamp function.
Alone, side by side or in tandem, the five versions of CR104P contacts blocks combine to address any circuit.

A single captive screw and locator pin make stacking and installation quick and easy. A clear viewing window allows for instant contact inspection. Color-coded plungers simplify contact identification:

<table>
<thead>
<tr>
<th>Plunger color</th>
<th>Contact</th>
</tr>
</thead>
<tbody>
<tr>
<td>Green</td>
<td>1NO</td>
</tr>
<tr>
<td>Red</td>
<td>1NC</td>
</tr>
<tr>
<td>White</td>
<td>1NO/1NC, 1NO (late), 1NC (early)</td>
</tr>
</tbody>
</table>

For special applications, choose an early make-normally open or late break-normally closed block.

For low-level circuits, standard contact blocks are available with gold flashed contact surfaces; these are recommended to non-arcing loads below 48 volts.

Logic reed contacts are hermetically sealed in a glass reed switch to protect against contaminants in the surrounding atmosphere. These are ideal for low-voltage levels typically available from programmed controls and computer systems (24 volts and below), and for use in hostile environments at voltages up to 120 Vac. They are UL Listed for use in Division 2 hazardous locations.
Special forms, enclosures and accessories round out the line.

Special forms
For special applications, CR104P modification kits let you easily change the standard push button action. These include push-on/push off, mechanical latch, mechanical interlock, push-pull emergency, wobble stick and lockout attachment kits.

In addition, joysticks are available to fill your most difficult multi-position applications. These operators can be furnished in 3, 5 or 9 maintained or momentary positions and are available with or without a protective mechanical interlock.

Enclosures
Enclosures in painted sheet steel or stainless steel accept one to 25 operators. They’re available separately or as factory assembled, unwired stations.

Types 1, 12 and 13 ratings apply to all CR104P operators when assembled in UL Listed painted sheet steel enclosures, without the need for protective caps. In addition, Types 3, 3R, 4 and 4X ratings apply to stainless steel assembled stations, without protective caps (except CR104PTP push-turn operator). Protective caps offer an additional degree of protection against dust and in most Type 4X applications.

Accessories
Our wide range of accessories makes special option combinations almost endless.

Caps, heads, covers and more
• Snap-on colored cap kits for standard push buttons: black, red, green and yellow or brown, orange, blue, white and clear
• 1 3/8” (including push/turn) or 2 3/8” diameter mushroom heads
• Colored selector switch knobs in black, red, green, yellow or blue
• 2 3/8” diameter red mushroom head for use with cylinder-lock push buttons
• Lever for push-turn selector switches
• Potentiometer operator
• Protective cap for standard push buttons in color neoprene or transparent silicone rubber
• Protective cap for illuminated push buttons in transparent silicone rubber
• Protective cap for knob-operated selector switches in black

Lenses/knobs
• Lenses for illuminated push buttons in blue, red, green, yellow, amber, white and clear
• 1 3/8” diameter lens for illuminated mushroom head push buttons
• Knob for illuminated selector switches in red, green, yellow, amber, blue, white and clear
• 2- and 4-color cluster lights with white lens and divider
• Filter cap for miniature screw base lamp in red, green, yellow and blue

Mounting rings
Chrome-plated octagonal mounting rings allow you to stock one push button for flush, recessed or extended mounting, according to ring selection. Mounting rings are also available to fit special form push buttons.

Nameplates
Nameplates come in five different sizes, with red or black fields and with standard markings, customer-specified markings or blank. They are available as separate items from the operators.

<table>
<thead>
<tr>
<th>Size</th>
<th>Description</th>
<th>Dimensions (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Standard</td>
<td>1.98 x 1.93</td>
</tr>
<tr>
<td>2</td>
<td>Large</td>
<td>1.98 x 3.26</td>
</tr>
<tr>
<td>3</td>
<td>Extra large (automotive)</td>
<td>2.40 x 2.44</td>
</tr>
<tr>
<td>4</td>
<td>Small joystick</td>
<td>2.32 x 2.32</td>
</tr>
<tr>
<td>5</td>
<td>Large joystick</td>
<td>2.92 x 2.92</td>
</tr>
</tbody>
</table>
The rugged durability of the CR104P is engineered and manufactured from the inside out.

CR104P push buttons are suitable for use in Types 1, 3, 3R, 4, 4X, 12 and 13 applications when mounted in enclosures rated for those same applications.

Snap-on caps come in eight different colors and in clear.

Octagonal mounting rings meet stringent automotive industry standards.

Nameplates are available in red or black, blank or with standard markings.

Rubber gasket helps seal push buttons against oil, water and dust.

Spacers are added or removed to accommodate different panel thicknesses.

Bellows-type rubber seal keeps out contaminants.

Color-coded plungers tell you quickly and accurately whether contact is normally open or closed. On standard single block, NO is green; NC is red. On double block, NO/NC is white.

Modular contact blocks can be easily added to meet circuitry requirements.

Clear contact block covers facilitate fast, precise contact inspection.

Contact block mounting via a single captive screw saves installation time and money.

Information provided is subject to change without notice. Please verify all details with GE. All values are design or typical values when measured under laboratory conditions, and GE makes no warranty or guarantee, express or implied, that such performance will be obtained under end-use conditions.

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