## CR104P Heavy-Duty Push Button Accessories, Components \& Kits <br> 600 Volts Maximum AC/DC

10 Amperes Continuous
One-step selection and pricing.

|  | Description |  |  |  | Cat. No. |  | $\begin{gathered} \text { List } \\ \text { Price, } \\ \text { GO-10P1 } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | General |  |  | Specific |  |  |  |
|  | Incandescent Lamps |  |  |  |  |  |  |
|  | All-voltage transformer lamp, min. bayonet base |  | 6V, \# 755 |  | CR104PXA16 |  | \$ 3.00 |
|  | Full-voltage lamp, min. bayonet base |  | 6V, \#755 |  | CR104PXA16 |  | 3.00 |
|  |  |  | 12 V. \#756 |  | CR104PXA12 |  | 3.00 |
|  |  |  | 24 V, \#1819 |  | CR104PXA14 |  | 3.00 |
|  |  |  | 130 V , min. bayonetbase |  | CR104PXA54 |  | 3.00 |
|  |  |  | 120V, \#120PSB, \# 5 telephone slide base * |  | CR104PXA52 ${ }^{\text {(1) }}$ |  | 3.00 |
|  | Resistor lamp |  | 240V, \#120PSB, \# 5 telephone slide base* |  | CR104PXA52 ${ }^{\text {(1) }}$ |  | 3.00 |
|  |  |  | 120 V, \# 1835, min. bayonet base |  | CR104PXA15 |  | 3.00 |
|  | Cluster light, min. screw base |  | 6V, \#1768 |  | CR104PXA26 |  | 3.00 |
|  |  |  | 12V, \#373 |  | CR104PXA22 |  | 3.00 |
|  |  |  | $24 \mathrm{~V}, \# 399$ |  | CR104PXA24 |  | 3.00 |
|  | LED Lamps |  |  |  |  |  |  |
|  | LED <br> (Flat Top) <br> Min. bayonet base, <br> replaces lamp 755 |  | $6 \mathrm{AC} / \mathrm{DC}$ |  | 080BA9S6L* |  | 18.00 (2) |
|  |  |  | $12 \mathrm{AC} / \mathrm{DC}$ |  | 080BA9S12L* |  | 18.00 (2) |
|  |  |  | $24 \mathrm{AC} / \mathrm{DC}$ |  | 080BA9S24L* |  | 18.00 (2) |
|  |  |  | $48 \mathrm{AC} / \mathrm{DC}$ |  | 080BA9S48L* |  | 18.00 (2) |
|  |  |  | $120 \mathrm{AC} / \mathrm{DC}$ |  | 080BA9S120L* |  | 18.00 (2) |
|  | LED Colors |  |  |  |  |  |  |
|  | Colors | Red Gr | Green | Yellow | Orange | White | Blue |
|  | *Color code | R | V | G | A | B | L |
| PUSH BUTTONS | Description |  |  |  | Cat. No. CR104P |  | $\begin{gathered} \text { List } \\ \text { Price, } \\ \text { GO-10P1 } \end{gathered}$ |
|  | General |  |  | Specific |  |  |  |
|  | Neon |  |  |  |  |  |  |
|  | 120 V, min. bayonet base, \#NE51H-R |  | N/A |  | XA19 |  | 3.00 |
|  | Mushroom-Head Caps |  |  |  |  |  |  |
|  |  | Mushroom-head, $1-3 / 8^{\prime \prime}$ diameter. Depth (max. projection front of panel) $=1.10^{\prime \prime}$ (27.9mm) | Black |  | Хм03B |  | 6.00 |
|  |  |  | Red |  |  | M03R | 6.00 |
|  |  |  | Yellow |  |  | M03E | 6.00 |
|  |  |  | Green |  |  | M03G | 6.00 |
|  |  |  | Red, push-turn |  |  | M04R | 6.00 |
|  |  |  | Black |  |  | M06B | 6.00 |
|  |  |  | Red |  |  | M06R | 6.00 |
|  | 0 | $23 /{ }^{\prime \prime}$ diameter. | Yellow |  |  | M06E | 6.00 |
|  | - | Depth (max. projections front | Green |  |  | M06G | 6.00 |
|  |  | $\begin{aligned} & \text { of panel) }=1.10^{\prime \prime} \\ & (27.9 \mathrm{~mm}) \end{aligned}$ | " |  |  |  |  |
|  |  |  | Red |  |  | L06R | 4.20 |
|  |  | Mushroom-head | Yellow |  |  | LO6E | 4.20 |
|  |  | for illuminated | Green |  |  | L06G | 4.20 |
|  |  | diameter. Depth | Blue |  |  | L06L | 4.20 |
|  |  | (max. projection | Amber |  |  | L06M | 4.20 |
|  |  | $1.20^{\prime \prime}(30.5 \mathrm{~mm})$ | White |  |  | L06W | 4.20 |
|  |  |  | Clear |  |  | L06C | 4.20 |


(1) For replacement only (GO-11GS).
(2) GO-10GC

The GE push button offering includes a complete line of control units and stations in both full size push buttons ( 30 mm ) and in miniature size devices $(22 \mathrm{~mm})$ 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.
Light Tower Status Indicating Lights provide information at a glance in industrial or commercial environments where you need to transmit and receive information across a distance. Modularity and versatility make them valuable in a broad range of applications.
GE's C-2000 ${ }^{\text {TM }} 22 \mathrm{~mm}$ 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 catalog numbers, packaging, and markings anywhere in the world.
An entire listing of CR2943 and CR2941 standard-duty push button control stations is available, suitable for NEMA Type 1, 4, 4 X , and 7 and 9 applications.


Heavy-Duty 30mm Push Buttons,
Selector Switches, Indicating Lights, Accessories (CR104P Series)
. 9-2 to 9-36
Light Tower Status Indicating Lights (SL Series) . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 9-37 to 9-47
C-2000 ${ }^{\text {TM }} 22 \mathrm{~mm}$ Global Push Buttons (P9 Series)

9-48 to 9-100
Standard-Duty Push Button Control Stations (CR2943 and CR2941 Series)

9-101 to 9-103
Palm Switches . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 9-104

## References:

See Publication Index, Section 18.

# CR104P Heavy-Duty Push Buttons <br> 600 Volts Maximum AC/DC 

10 Amperes Continuous

## Technical Data

General Specifications


Contacts


## CR104P Heavy-Duty Push Buttons <br> 600 Volts Maximum AC/DC

10 Amperes Continuous
Technical Data, Dimensions

## Mounting

CR104P push buttons are designed for front mounting, with or without nameplates, in $113 / 4^{\prime \prime}$ 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 ( $1.02-6.35 \mathrm{~mm}$ )

## Mechanical Life Ratings

|  |  |
| :--- | ---: |
| Operator | Number of |
| Standard push buttons | Operations |
|  | $3,000,000$ |
| Momentary mushroom-head push buttons | $1,000,000$ |
| Maintained \& push-to-latch, turn-to-release mushroom-head push buttons | $3,000,000$ |
| Selector switches (all) | 500,000 |
| Joysticks | $1,000,000$ |
| Toggle switches | 500,000 |
| Wobble sticks | 500,000 |
| Key-operated push buttons | $1,000,000$ |
| Selector push buttons | 500,000 |
| Time-delay push buttons | $1,000,000$ |

Electrical Life Ratings

| Push buttons- $-5,000,000$ operations |
| :--- |
| Selector switches $-500,000$ |

Maximum Contacts

| Operator | Single Circuit |  | Double Circuit |  |
| :--- | :---: | :---: | :---: | :---: |
|  | Blocks | Contacts | Blocks | Contacts |
| Nonilluminated selector switches <br> (excluding 4-position) | 6 | 6 | 6 | 12 |
| Combination (push-turn) | 6 | 6 | 6 | 12 |
| Nonilluminated momentary push <br> buttons (incl. mushroom-head) | 8 | 8 | 4 | 8 |
| Illuminated momentary push buttons | 4 | 4 | 2 | 4 |
| Push-to-latch/turn-to-release <br> mushroom-head push buttons | 4 | 4 | 4 | 8 |
| Cylinder lock 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 <br> mushroom-head push buttons | 2 | 2 | 2 | 4 |
| Push-pull nonilluminated <br> mushroom-head push buttons | 2 | 2 | 2 | 4 |
| Nonilluminated 4-position <br> selector switches | - | - | 2 | 4 |
| Push-push illuminated push buttons | 2 | 2 | - | - |

Dual Dimensions $\frac{\text { Inches }}{\text { Millimeters }}$ (For Estimating Only)


For dimensional information on other operators, contact nearest GE Industrial Systems-Electrical Distribution and Control Representative. Manufacturing tolerances apply to all untoleranced dimensions.

Panel thickness (inches)
No. of washers required
.062
.093
.125
.188
.25

3
2
2
.25
0
Materials

| Component | Material |
| :--- | :--- |
| Cap (nonilluminated) | 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 |
| Plo $+204^{\circ} \mathrm{C}$ |  |
| Locking plate | Polycarbonate |
| Locking ring | Chromium-plated zinc ingot |
| Hexagonal ring | Chromium-plated zinc ingot |
| Contact block housing | Chromium-plated zinc ingot |
| Cam | Nylon |
| Cam follower | Unfilled Polyacetal |
| Joystick protective housings | Unfilled Polyacetal |
| Terminal screw | Vinyl nitrile |
| Gasket | \#6-32 |
| Contacts | Vinyl nitrile |
| Push button guards | Silver alloy |
| Wobble stick | Chromium-plated zinc ingot |
| Key | Aluminum |
| Protective caps | Brass |
| Locking attachment | Silicon rubber |
|  | Polycarbonate |

