## C-2000 ${ }^{\text {m }}$ Push Buttons

600 Volts Max. AC/300 Volts Max. DC 10 Amps. Continuous AC/2.5 Amps. Continuous DC

## Selection Process

| Select operator <br> below |
| :---: | | Select contact block(s) |
| :---: |
| from pages $9-82 \& 988$ |$+$| Select nameplate, if |
| :---: |
| required, frompages $9-84$ to $9-86$ |$=$ Complete unit

## Operators

## Momentary \& Push-To-Latch

Replace asterisk ( ${ }^{*}$ ) in momentary catalog number with color code from colors table below.
Replace dagger ( $\dagger$ ) in push-to-latch-key-to-release catalog number with key code from keys table below.

| Style | Head Diameter | Momentary |  | Red Push-To-Latch-Turn-to-Release |  | Red Push-To-Latch-Key-to-Release |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Catalog No. | List Price, GO-10GC | Catalog No. | List Price, GO-10GC | Catalog No. | List Price, GO-10GC |
| (3) Polished Chrome | 28 mm | P9CEM3 * N | \$16.50 | P9CER3RN | \$38.50 | - | - |
|  | 40 mm | P9CEM4*N | 16.50 | PgCER4RN | 38.50 | PGCECARNT | \$53.50 |
|  | 60 mm | P9CEM6*N | 18.50 | - | - | - | - |
| $\bigcirc$ Satin Chrome | 28 mm | P9MEM3*N | 16.50 | P9MER3RN | 38.50 | - | - |
|  | 40 mm | PGMEM $4 * N$ | 16.50 | P9MER4RN | 38.50 | PgMECARN $\dagger$ | 53.50 |
|  | 60 mm | P9MEM6*N | 18.50 | - | - | - | - |
| (1) Round Engineered Plastic | 28 mm | P9XEM3*N | 16.50 | - | - | - | - |
|  | 40 mm | PgXEM4*N | 16.50 | P9XER4RA | 38.50 | P9XEC4RA $\dagger$ | 53.50 |
|  | 60 mm | P9XEM6*N | 18.50 | - | - | - | - |
| Square Engineered Plastic | 29 mm | P9SEM3*N | 16.50 | - | - | - | - |
|  | 40 mm | - | - | P9SER4RA | 38.50 | P9SEC4RAt | 53.50 |

Catalog numbers shown in bold are direct snap action push buttons per EN 418 . Fully depressing the button will ensure that the NC contacts have been opened by purely mechanical means. Less than full depression of the button will not change contact state.
Push-Pull
Replace asterisk ( *) in catalog number with color code from colors table below.

| Style | Head Diameter | 2-Position Maintained |  | 3-Position Maintained Push-Momentary Pull |  | 3-PositionMomentary Push-Momentary Puli |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Catalog No. | List Price, GO-10GC | Catalog No. | List Price, GO-10GC | Catalog No. | List Price, GO-10GC |
| O Polished Chrome | 40 mm | P9CET4*N1 | \$21.50 | P9CET4*N2 | \$31.00 | P9CET4*N3 | \$31.00 |
| O Satin Chrome | 40 mm | P9MET4*N1 | 21.50 | P9MET4*N2 | 31.00 | P9MET4*N3 | 31.00 |
| (3) Round Engineered Plastic | 40 mm | P9XET4*N1 | 21.50 | P9XET4*N2 | 31.00 | P9XET4*N3 | 31.00 |
| $\square$ Square Engineered Plastic | 40 mm | P9SET $4 * N 1$ | 21.50 | P9SET4*N2 | 31.00 | P9SET4*N3 | 31.00 |

## *Colors

| Color | Black | Red | Green | Yellow |
| :---: | :---: | :---: | :---: | :---: |
| * Color Code | N | $R$ | $V$ | $G$ |

## $\dagger$ Keys (Set of 2)

| Key Number | Std. | Special (1) |  |  |  |  |  |  |  |  |  | Colored (1) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 3095 | 9901 | 9902 | 9903 | 9904 | 9905 | 9910 | 9916 | 9919 | 3353 | R455 (Ronis) | 73033 (Yellow) | 73034 (Black) | 73037 (Red) | 73038 (Blue) | 73040 (Orange) |
| t Key Code | 95 | 01 | 02 | 03 | 04 | 05 | 10 | 16 | 19 | 53 | 55 | 33 | 34 | 37 | 38 | 40 |

(1) To order with other than standard key code (95), add $\$ 4.00$ to List Price, GO-10GC. Minimum quantity order on Key Codes 95,55 , and 33 is one; for all others, minimum quantity order is ten.

Dimensional drawings on page 9-64.

Selection and Drawing
Data.
Accessories . . . . . . . . . . . pages 9-87 to 9-95
Technical Data . . . . . . . pages 9-52 to 9-57

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 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™ 22 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 30 mm 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 ${ }^{\text {TM }}$ 22mm 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.

## C-2000™ Push Buttons

600 Volts Max. AC/300 Volts Max. DC
10 Amps . Continuous AC/2.5 Amps. Continuous DC

## Technical Data

| General Specifications |  |
| :---: | :---: |
| Conformity to standards | UL508 (USA) CSA C22.2 No. 14-M91 (Canada) <br> NEMA ICS-2 (USA) IEC 947.5.1 (International) <br> VDE 0660 (Germany) UTE (France) <br> BSI (Great Britain) NFC 63140 (France) <br> CENE60947. 1 (Italy) JIS (Japan) |
| Approvals | UL listed - File Number E66677 <br> CSA Certified-File Number 16661-63 <br> Manufacturing facility is registered to ISO 9000 |
| Finger protection at terminals | IP2X according to IEC 529 <br> Terminal identification per CENELEC EN 50013 |
| Enclosure ratings | Suitable for use in NEMA Types $1,3,3 R, 35,4,4 \mathrm{X}, 12$, and 13 enclosures. (Multi-function push buttons are suitable for NEMA Type 1 enclosures only unless used with protective rubber cap accessory.) IP66 per IEC 529 , when mounted in enclosures with equal or superior seal. |
| Ambient temperature | Operating Storage <br> $-13^{\circ}$ to $+158^{\circ} \mathrm{F}$ $-40^{\circ}$ to $158^{\circ} \mathrm{F}$ <br> $-25^{\circ}$ to $+70^{\circ} \mathrm{C}$ $-40^{\circ}$ to $+70^{\circ} \mathrm{C}$ |
| Climate suitability/humidity | Climate Type Temperature Relative Humidity <br> Temperature $74^{\circ} \mathrm{F}\left(23^{\circ} \mathrm{C}\right)$ $50 \%$ <br> Wet $74^{\circ} \mathrm{F}\left(23^{\circ} \mathrm{C}\right)$ $83 \%$ <br> Hot Wet $14^{\circ} \mathrm{F}\left(0^{\circ} \mathrm{C}\right)$ $92 \%$ <br> Variable Wet $74^{\circ}$ to $104^{\circ} \mathrm{F}\left(23^{\circ}\right.$ to $\left.40^{\circ} \mathrm{C}\right)$ $83 \%$ to $92 \%$ |
| Resistance to vibration | Per IEC 68-2-6. 16 g with a frequency from $40-500 \mathrm{~Hz}$ and maximum peak-to-peak amplitude of 0.75 mm . |
| Resistance to shock | According to MIL 2.2.3, method 202A. Test was performed for $1 / 2$ sinusoid for $11 \mathrm{~ms}, 38 \mathrm{~g}$ max for all operators with transformers and 100 g for all other operators. |
| Operating force | Standard push button operator: 2.5 lbs . ( 11 N ) <br> Each contact block: $1.3 \mathrm{lbs} .(6 \mathrm{~N})$ <br> Selector switch operator: $2.4 \mathrm{in} . / \mathrm{lb} .(0.27 \mathrm{~N}-\mathrm{m})$ |

Wire Terminals


