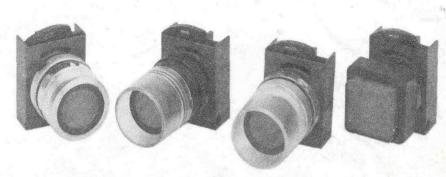
Illuminated Push Buttons



Selection Process

| Select operator below | + | Select power supply from pages 9-82 & 9-83 | + | Select contact block from pages 9-82 & 9-83 | + | Select nameplate, if required, from page 9-84 to 9-86 | Complete unit |
|-----------------------|---|--|---|--|---|---|---------------|
| | | 9 | | 25 | | | |
| | | | | | | | |

Operators

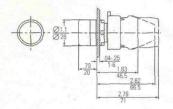
Replace asterisk (*) in catalog number with color code digit from colors table below.

| Style | Extended Catalog No. | List Price, GO-10GC | Flush Catalog No. | Recessed Catalog No. | List Price, GO-10GC |
|---------------------------|----------------------|---------------------|-------------------|----------------------|---------------------|
| O Polished Chrome | P9CPL*SD | \$10.50 | P9CPL*GD | P9CPL*ED | \$11.50 |
| O Satin Chrome | P9MPL*SD | 10.50 | P9MPL*GD | P9MPL*ED | 11.50 |
| Round Engineered Plastic | P9XPL*SD | 10.50 | P9XPL*GD | P9XPL*ED | 11.50 |
| Square Engineered Plastic | P9SPL*SD | 10.50 | P9SPL*GĎ | P9SPL*ED | 11.50 |

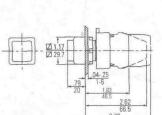
*Colors

| Color | Red | Green | Yellow | Blue | White | Orange | Clear | No Lens ① |
|--------------|-----|-------|--------|------|-------|--------|-------|-----------|
| * Color Code | R | V | G | L | В | Α | 1 | 0 |

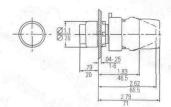
When ordering illuminated push buttons with no lens, change eighth digit in catalog number from D to Ø and deduct \$1.00 from List Price. Color lenses are listed separately, pg. 9-89.



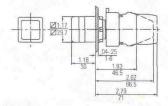
Round Illuminated Flush Push Button



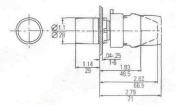
Square Illuminated Extended Push Button



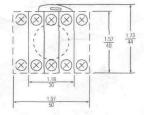
Round Illuminated Extended Push Button



Square Illuminated Recessed Push Button



Round Illuminated Recessed Push Button



Typical Back Side View

Selection and Drawing

| * Data | | | | | | | | | pages 9-50, 9-51 |
|------------------|---|---|----|----|----|---|---|---|--------------------|
| Accessories | | | | | | | | | pages 9-87 to 9-95 |
| Technical Data . | | | | , | | | | | pages 9-52 to 9-57 |
| Specially Marke | d | D | if | fı | J: | s | e | r | S |
| and Inserts | | | | | | | | | 9-88 |

Dimensions shown in

| | Inches | |
|---|-------------|--|
| - | Millimotors | |

Square Illuminated

Flush Push Button



Section 9

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™ 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 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, 4X, and 7 and 9 applications.



| Heavy-Duty 30mm Push Buttons, Selector Switches, Indicating Lights, Accessories (CR104P Series) |
|---|
| Light Tower Status Indicating Lights (SL Series) |
| C-2000™ 22mm Global Push Buttons (P9 Series) |
| Standard-Duty Push Button Control Stations (CR2943 and CR2941 Series)9-101 to 9-103 |
| Palm Switches |

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 | | 1 | 1 | | | | 1 | | 3.7 | |
|--|--|--|--|-------------------------------------|----------------------------|---|---------------------------------|-----------------------------|---|-------|
| Conformity to standards | UL508 (USA) NEMA ICS-2 (USA) VDE 0650 (Germany) BSI (Great Britain) CEI EN60947.5.1 (Italy) CENELEC EN 5000 7 (Europe) | a a | | | UTE NFC | C22.2 No. 1947.5.1 (Inte (France) 63140 (Frande) Japan) | | ada) | | |
| Approvals | UL listed—File Number E66677 CSA Certified—File Number 1666 Manufacturing facility is registered to | | 187 7 | 8 ₁₀ | (| | 1 21 1 | Ħ | | 1 |
| Finger protection at terminals | IP2X according to IEC 529 Terminal identification per CENELE | C EN 5001 | 3 | | | | | - | | |
| Enclosure ratings | Suitable for use in NEMA Types 1 , only unless used with protective rub | 3, 3R, 3S, 4 ber cap acc | 4, 4X, 12, and cessory.) IP66 | 13 enclos per IEC 52 | ures. (Mult 29, when m | -function pur ounted in en | sh buttons are closures with | suitable for Nequal or supe | NEMA Type 1 enclosu erior seal. | res |
| Ambient temperature | Operating - 13° to + 158°F - 25° to +70°C | | Storage -40° to 158' -40° to +70 | | | | | | Y | |
| Climate suitability/humidity | Climate Type Temperature Wet Hot Wet Variable Wet | 74° | 74°F (23°C 74°F (23°C 74°F (23°C 104°F (40°C to 104°F (23° t | | | Felative 50 83 92 83% to | % % % | | | |
| Resistance to vibration | Per IEC 68-2-6. 16g with a frequen | cy from 40-5 | 500 Hz and ma | kimum pe | ak-to-peak | amplitude o | f 0.75mm. | | | |
| Resistance to shock | According to MIL 202B, method 2 other operators. | 02A. Test w | as performed | or 1/2 sinu | usoid for 11 | ms, 38g ma | x for all operat | ors with trans | formers and 100g for | all |
| Operating force | Standard push button operator: 2.5 Each contact block: 1.3 lbs. (6 N) Selector switch operator: 2.4 in./lb. | | | 100 | | | | | | 1 |
| Wire Terminals | | | | | | | | | | |
| Wire capacity and terminal torque requirements (for all power supplies and contact blocks) | Parallel Conductor | #12 #14 #16 #16 #16 #18 | with #14 with #16 with #18 with #20 with #22 with #22 with #22 | anded or | Sona Wife | 2 | | 1 | minal Torque 12 in./lb. 12 in./lb. 12 in./lb. 12 in./lb. 12 in./lb. 0-12 in./lb. 0-12 in./lb. | |
| Quick connect terminals | Suitable for one female tab connect 0.8 mm). | | with #22 ng 0.25 x 0.03 i | nches (6.3 | 5 x 0:8 mm |) or two fem | ale tab conne | | 7-12 in./lb. ng 0.11 x 0.03 inches | (2.8 |
| Contact Data | 0.8 (1)(1). | | | | | | | | | - |
| Electrical reliability data | Electrical life and reliability in low leg | vel current: 8 | 30 million oper | itions at 1 | 2V, 5mA, re | esistive load. | (32 contacts t | tested succes | sfully for 2.5 million | |
| Dust resistance | In extremely dusty environments, el life at low level current is 10 million | ectrical life a | at low level cur at 12 V, 5mA, re | ent is 250, sistive loa | ,000 operat | ions at 12 V, | 5mA, resistive | e load. In a cle | ean environment, elec | trica |
| Thermal current | Ith = 10A per IEC 947-5-1 | T a | | | | | | | | |
| Insulation voltage | Ui = 660 Volts ac/dc (opposité pola | arity) except | 2NO and 2NO | blocks 30 | 0 Vac/dc | | | 1 | | |
| Protection from electrical shock | Class I per IEC 536 for metal operal Class II (double insulation) per IEC | ors 536 for plas | tic operators | | | | | | | |
| Insulation category | Group "C" per VDE 0110 | | e e | | | | | | · · · · · · · · · | |
| Dielectric strength | 2500 Volts | | | | | | | | - N | |
| Short circuit protection | 10A type gG fuse, per IEC 269.1 & 2 | 269.3 | 1 1 1 | | au au | | | | 7 | |
| Pilot duty ratings | A600 (maximum make volt-ampere Volts (V) 12 Continuous (A) 10 Making (A) 100 Breaking (A) 10 | 24 10 100 10 | 48 10 100 10 | volt-ampe 60 10 100 100 | 120 10 60 6 | ; PF = .25) 240 10 30 3 | 480 10 15 1.5 | 600 10 12 1.2 | * | |
| | Q300 (maximum make or break vol Volts (V) 12 Continuous (A) 2.5 Making (A) 2.5 Breaking (A) 2.5 | 24 2.5 2.5 2.5 2.5 | 48 2.5 1.4 1.4 | 60 2.5 1.1 1.1 | 125 2.5 0.55 0.55 | 250 2.5 0.27 0.27 | 300 2.5 0.23 0.23 | | | |