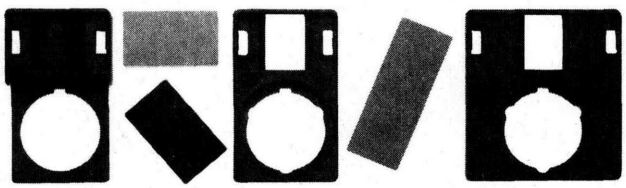
C-2000™ Push Buttons

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

Nameplates



Standard Markings
Metal Nameplates and Inserts for Standard Size Plastic Nameplates Holders

Marking	Metal Nameplate Catalog No.	List Price, GO-10GC	Plastic Insert Catalog No. ①	List Price, GO-10GC
Auto	P9ACP2N219	$1.80	P9ACPBS219	$.50
Auto Cut	P9ACP2N272	1.80	P9ACPBS272	.50
Auto Return	P9ACP2N273	1.80	P9ACPBS273	.50
Close	P9ACP2N205	1.80	P9ACPBS205	.50
Control Off	P9ACP2N262	1.80	P9ACPBS262	.50
Control On	P9ACP2N286	1.80	P9ACPBS286	.50
Cycle On	P9ACP2N266	1.80	P9ACPBS266	.50
Decrease	P9ACP2N274	1.80	P9ACPBS274	.50
Down	P9ACP2N203	1.80	P9ACPBS203	.50
Emergency Stop (RED)	P9ACP2R229	1.80	P9ACPBS229	.50
Emergency Stop Pull to Reset (RED)	P9ACP2R230	1.80	P9ACPBS230	.50
Fast	P9ACP2N208	1.80	P9ACPBS208	.50
Fault	P9ACP2N218	1.80	P9ACPBS218	.50
Forward	P9ACP2N214	1.80	P9ACPBS214	.50
Hand	P9ACP2N220	1.80	P9ACPBS220	.50
High	P9ACP2N221	1.80	P9ACPBS221	.50
In	P9ACP2N275	1.80	P9ACPBS275	.50
Inch	P9ACP2N209	1.80	P9ACPBS209	.50
Increase	P9ACP2N278	1.80	P9ACPBS278	.50
Jog	P9ACP2N210	1.80	P9ACPBS210	.50
Left	P9ACP2N222	1.80	P9ACPBS222	.50
Low	P9ACP2N223	1.80	P9ACPBS223	.50
Lower	P9ACP2N217	1.80	P9ACPBS217	.50
Off (Red)	P9ACP2R213	1.80	P9ACPBS213	.50
On	P9ACP2N212	1.80	P9ACPBS212	.50
Open	P9ACP2N206	1.80	P9ACPBS206	.50
Out	P9ACP2N293	1.80	P9ACPBS293	.50
Overload Tripped	P9ACP2N226	1.80	P9ACPBS226	.50
Power On	P9ACP2N240	1.80	P9ACPBS240	.50
Push-to-Stop/Pull-to-Start	P9ACP2N241	1.80	P9ACPBS241	.50
Raise	P9ACP2N216	1.80	P9ACPBS216	.50
Reset	P9ACP2N291	1.80	P9ACPBS291	.50
Return	P9ACP2N242	1.80	P9ACPBS242	.50
Reverse	P9ACP2N215	1.80	P9ACPBS215	.50
Right	P9ACP2N224	1.80	P9ACPBS224	.50
Run	P9ACP2N211	1.80	P9ACPBS211	.50
Safe	P9ACP2N281	1.80	P9ACPBS281	.50
Slow	P9ACP2N207	1.80	P9ACPBS207	.50
Spindle Closed	P9ACP2N294	1.80	P9ACPBS294	.50
Spindle Open	P9ACP2N295	1.80	P9ACPBS295	.50
Start	P9ACP2N202	1.80	P9ACPBS202	.50
Stop (RED)	P9ACP2R201	1.80	P9ACPBS201	.50
Stop Rotate-to-Reset	P9ACP2N228	1.80	P9ACPBS228	.50
Sub SPD Closed	P9ACP2N296	1.80	P9ACPBS296	.50
Sub SPD Open	P9ACP2N297	1.80	P9ACPBS297	.50
Test	P9ACP2N225	1.80	P9ACPBS225	.50
Up	P9ACP2N204	1.80	P9ACPBS204	.50
Feed Hold	P9ACP2N263	1.80	P9ACPBS263	.50
For Rev	P9ACP2N231	1.80	P9ACPBS231	.50
Hand Auto	P9ACP2N243	1.80	P9ACPBS243	.50
High Low	P9ACP2N244	1.80	P9ACPBS244	.50
H.P. Coolant	P9ACP2N290	1.80	P9ACPBS290	.50

① For use with plastic nameplate holders on page 9-86.

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.

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) **NEMA ICS-2** (USA) **VDE 0660** (Germany) **BSI** (Great Britain) **CEI EN60947.5.1** (Italy) **CENELEC EN 5000 7** (Europe) **CSA C22.2 No. 14-M91** (Canada) **IEC 947.5.1** (International) **UTE** (France) **NFC 63140** (France) **JIS** (Japan)
Approvals	**UL listed**—File Number E66677 **CSA Certified**—File Number 16661-63 Manufacturing facility is registered to **ISO 9000** CE
Finger protection at terminals	**IP2X** according to IEC 529 Terminal identification per **CENELEC EN 50013**
Enclosure ratings	Suitable for use in **NEMA Types 1, 3, 3R, 3S, 4, 4X, 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**: −13° to +158°F; −25° to +70°C **Storage**: −40° to 158°F; −40° to +70°C
Climate suitability/humidity	**Climate Type** / **Temperature** / **Relative Humidity** Temperature / 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% to 92%
Resistance to vibration	Per **IEC 68-2-6.** 16g with a frequency from 40-500 Hz and maximum peak-to-peak amplitude of 0.75mm.
Resistance to shock	According to **MIL 202B, method 202A.** Test was performed for 1/2 sinusoid for 11ms, 38g max for all operators with transformers and 100g for all other operators.
Operating force	Standard push button operator: 2.5 lbs. (11N) Each contact block: 1.3 lbs. (6 N) Selector switch operator: 2.4 in./lb. (0.27 N-m)

Wire Terminals

Wire capacity and terminal torque requirements (for all power supplies and contact blocks)	Suitable for #22-#12 AWG stranded or solid copper wires, single or parallel conductors of same size. Terminal torque: 7-12 in./lb. Parallel conductor size combinations (stranded or solid wire): **Parallel Conductor Size Combinations (Stranded or Solid Wire)** / **Terminal Torque** #12 with #14 / 12 in./lb. #14 with #16 / 12 in./lb. #16 with #18 / 12 in./lb. #16 with #20 / 12 in./lb. #16 with #22 / 12 in./lb. #18 with #22 / 10-12 in./lb. #18 with #20 / 10-12 in./lb. #20 with #22 / 7-12 in./lb.
Quick connect terminals	Suitable for one female tab connector measuring 0.25 x 0.03 inches (6.35 x 0.8 mm) or two female tab connectors measuring 0.11 x 0.03 inches (2.8 x 0.8 mm).

Contact Data

Electrical reliability data	Electrical life and reliability in low level current: 80 million operations at 12V, 5mA, resistive load. (32 contacts tested successfully for 2.5 million operations.)
Dust resistance	In extremely dusty environments, electrical life at low level current is 250,000 operations at 12 V, 5mA, resistive load. In a clean environment, electrical life at low level current is 10 million operations at 12 V, 5mA, resistive load.
Thermal current	Ith = 10A per IEC 947-5-1
Insulation voltage	Ui = 660 Volts ac/dc (opposite polarity) except 2NO and 2NC blocks 300 Vac/dc
Protection from electrical shock	Class I 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 Volts
Short circuit protection	10A type gG fuse, per IEC 269.1 & 269.3
Pilot duty ratings	**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	10
Making (A)	100	100	100	100	60	30	15	12
Breaking (A)	10	10	10	10	6	3	1.5	1.2

Q300 (maximum make or break volt-amperes = 69)

Volts (V)	12	24	48	60	125	250	300
Continuous (A)	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Making (A)	2.5	2.5	1.4	1.1	0.55	0.27	0.23
Breaking (A)	2.5	2.5	1.4	1.1	0.55	0.27	0.23