GE Push Buttons

C-2000[™] Push Buttons

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

Nameplates Standard Markings

Additional Additi	And Long to Fee Observational Observation Managements and Halden	-
Motal Namoniatos	And Inserts For Standard Size Plastic Nameplates Holders	•
metal maineplates		

Marking	Metal Nameplate Catalog No.	List Price, GO-10GC	Plastic Insert Catalog No. ①	List Price, GO-10GC
nch Cut	P9ACP2N276	\$1.80	P9ACPBS276	\$.50
nch Return	P9ACP2N277	1.80	P9ACPBS277	.50
Jog Forward	P9ACP2N279	1.80	P9ACPBS279	.50
Jog Reverse	P9ACP2N280	1.80	P9ACPBS280	.50
Jog Run	P9ACP2N245	1.80	P9ACPBS245	.50
Left Right	P9ACP2N246	1.80	P9ACPBS246	.50
Low High	P9ACP2N247	1.80	P9ACPBS247	.50
Lower Raise	P9ACP2N248	1.80	P9ACPBS248	.50
Off On	P9ACP2N233	1.80	P9ACPBS233	.50
Open Close	P9ACP2N234	1.80	P9ACPBS234	.50
Raise Lower	P9ACP2N249	1.80	P9ACPBS249	.50
Rev For	P9ACP2N250	1.80	P9ACPBS250	.50
Run Jog	P9ACP2N251	1.80	P9ACPBS251	.50
Safe Run	P9ACP2N252	1.80	P9ACPBS252	.50
Slow Fast	P9ACP2N253	1.80	P9ACPBS253	.50
Start Cycle	P9ACP2N282	1.80	P9ACPBS282	.50
Start Feed	P9ACP2N283	1.80	P9ACPBS283	
Start Jog	P9ACP2N254	1.80	P9ACPBS254	.50
Start Stop	P9ACP2N255	1.80	P9ACPBS255	.50
Stop Cycle	P9ACP2N265	1.80	P9ACPBS265	.50
Stop Feed	P9ACP2N264	1.80	P9ACPBS264	.50
Stop Reset (Red)	P9ACP2R227	1.80	P9ACPBS227	.50
Stop Start	P9ACP2N232	1.80	P9ACPBS232	.50
Up Down	P9ACP2N256	1.80	P9ACPBS256	.50
Off Coolant On	P9ACP2N257	1.80	P9ACPBS257	.50
Auto Off Hand	P9ACP2N258	1.80	P9ACPBS258	.50
For Off Rev	P9ACP2N239	1.80	P9ACPBS239	.50
For Stop Rev	P9ACP2N259	1.80	P9ACPBS259	.50
Hand Off Auto	P9ACP2N261	1.80	P9ACPBS261	.50
Jog Off Run	P9ACP2N298	1.80	P9ACPBS298	.50
Jog Sate Run	P9ACP2N267	1.80	P9ACPBS267	.50
Local Off Remote	P9ACP2N237	1.80	P9ACPBS237	.50
Low Off High	P9ACP2N238	1.80	P9ACPBS238	.50
Lower Off Raise	P9ACP2N268	1.80	P9ACPBS268	.50
Man Off Auto	P9ACP2N269	1.80	P9ACPBS269	.50
Open Off Close	P9ACP2N270	1.80	P9ACPBS270	.50
Slow Off Fast	P9ACP2N271	1.80	P9ACPBS271	.50
Abrir	-	-	P9ACPBS506	.50
Adelante			P9ACPBS502	.50
Atras			P9ACPBS508	.50
Atras Adelante	-	-	P9ACPBS518	.50
Atras O Adelante	-	- 14 J.	P9ACPBS519	.50
Bajar		-	P9ACPBS505	.50
Bajo		-	P9ACPBS514	.50
Cerrar		-	P9ACPBS501	.50
Defecto		ist	P9ACPBS513	.50
Derecha	-		P9ACPBS509	.50
Emergencia	· · · · -	<u> </u>	P9ACPBS516	.50
Izquierda	_	_	P9ACPBS504	.50
Manual	-	_	P9ACPBS503	.50
Marcha		-	P9ACPBS510	.50
Paro (Red)		-	P9ACPBS511	.50
Paro Marcha	—	-	P9ACPBS517	.50
Paro O Marcha	-	-	P9ACPBS520	.50
Rapido			P9ACPBS512	.50
Rearme	-	-	P9ACPBS515	.50
Subir			P9ACPBS507	.50

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

GE Push Buttons

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)	9-2 to 9-36
Light Tower Status Indicating Lights (SL Series)	9-37 to 9-47
C-2000™ 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	

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

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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-N IEC 947.5.1 (Internati UTE (France) NFC 63140 (France) JIS (Japan)	191 (Canada) Ional)	
Approvals	UL listed—File Number E66677 CSA Certified—File Number 16661-63 Manufacturing facility is registered to ISO 9	0000	CE		
Finger protection at terminals	IP2X according to IEC 529 Terminal identification per CENELEC EN 5	0013			
Enclosure ratings	Suitable for use in NEMA Types 1, 3, 3R , only unless used with protective rubber cap	3S, 4, 4X, 12, and 13 enclose accessory.) IP66 per IEC 52	ures. (Multi-function push b 9, when mounted in enclos	uttons are suitable f ures with equal or s	or NEMA Type 1 enclosures uperior seal.
Ambient temperature	Operating -13° to +158°F -25° to +70°C	<u>Storage</u> -40° to 158°F -40° to +70°C			
Climate suitability/humidity	Climate Type Temperature Wet Hot Wet Variable Wet	Temperature 74°F (23°C) 74°F (23°C) 104°F (40°C) 74° to 104°F (23° to 40°C)	Relative Hum 50% 83% 92% 83% to 92%		
Resistance to vibration	Per IEC 68-2-6. 16g with a frequency from	40-500 Hz and maximum pea	ak-to-peak amplitude of 0.7	5mm.	
Resistance to shock	According to MIL 202B, method 202A. Te other operators.	est was performed for 1/2 sinu	isoid for 11ms, 38g max for	all operators with tr	ansformers and 100g for all
Operating force	Standard push button operator: 2.5 lbs. (11 Each contact block: 1.3 lbs. (6 N) Selector switch operator: 2.4 in./lb. (0.27 N				
Wire Terminals					
Wire capacity and terminal torque requirements (for all power supplies and contact blocks)		Sombinations (Stranded or 2007) #12 with #14 #14 with #16 #16 with #18 #16 with #20 #16 with #22 #18 with #22 #18 with #20 #20 with #20	Solid Wire)		Terminal Torque 12 in /lb. 12 in /lb. 12 in /lb. 12 in /lb. 12 in /lb. 10 12 in /lb. 10 12 in /lb. 7-12 in /lb.
	Suitable for one female tab connector mea 0.8 mm).	suring 0.25 x 0.03 inches (6.3	5 x 0:8 mm) or two female ta	ab connectors mea	suring 0.11 x 0.03 inches (2.8
Quick connect terminals					
			<u>.</u> .		
Contact Data	Electrical life and reliability in low level curre operations.)	ent: 80 million operations at 12	2V, 5mA, resistive load. (32	contacts tested suc	
Contact Data Electrical reliability data	Electrical life and reliability in low level curre	life at low level current is 250,	000 operations at 12 V, 5m/		ccessfully for 2.5 million
Contact Data Electrical reliability data Dust resistance	Electrical life and reliability in low level curre operations.)	life at low level current is 250,	000 operations at 12 V, 5m/		ccessfully for 2.5 million
Contact Data Electrical reliability data Dust resistance Thermal current	Electrical life and reliability in low level curre operations.) In extremely dusty environments, electrical life at low level current is 10 million operation	life at low level current is 250, ins at 12 V, 5mA, resistive loa	000 operations at 12 V, 5m/ d.		ccessfully for 2.5 million
Contact Data Electrical reliability data Dust resistance Thermal current Insulation voltage	Electrical life and reliability in low level curre operations.) In extremely dusty environments, electrical life at low level current is 10 million operatio lth = 10A per IEC 947-5-1	life at low level current is 250, ins at 12 V, 5mA, resistive load cept 2NO and 2NC blocks 30	000 operations at 12 V, 5m/ d.		ccessfully for 2.5 million
Contact Data Electrical reliability data Dust resistance Thermal current Insulation voltage Protection from electrical shock Insulation category	Electrical life and reliability in low level curre operations.) In extremely dusty environments, electrical life at low level current is 10 million operatio lth = 10A per IEC 947-5-1 Ui = 660 Volts ac/dc (opposite polarity) ext Class I per IEC 536 for metal operators	life at low level current is 250, ins at 12 V, 5mA, resistive load cept 2NO and 2NC blocks 30	000 operations at 12 V, 5m/ d.		ccessfully for 2.5 million
Contact Data Electrical reliability data Dust resistance Thermal current Insulation voltage Protection from electrical shock Insulation category	Electrical life and reliability in low level curre operations.) In extremely dusty environments, electrical life at low level current is 10 million operatio lth = 10A per IEC 947-5-1 Ui = 660 Volts ac/dc (opposite polarity) ext Class I per IEC 536 for metal operators Class II (double insulation) per IEC 536 for	life at low level current is 250, ins at 12 V, 5mA, resistive load cept 2NO and 2NC blocks 30	000 operations at 12 V, 5m/ d.		ccessfully for 2.5 million
Contact Data Electrical reliability data Dust resistance Thermal current Insulation voltage Protection from electrical shock Insulation category Dielectric strength	Electrical life and reliability in low level curre operations.) In extremely dusty environments, electrical life at low level current is 10 million operatio Ith = 10A per IEC 947-5-1 Ui = 660 Volts ac/dc (opposite polarity) ext Class I per IEC 536 for metal operators Class II (double insulation) per IEC 536 for Group "C" per VDE 0110 2500 Volts 10A type gG fuse, per IEC 269.1 & 269.3	life at low level current is 250, ins at 12 V, 5mA, resistive loar cept 2NO and 2NC blocks 30 plastic operators	000 operations at 12 V, 5m/ d. 0 Vac/dc		ccessfully for 2.5 million
Quick connect terminals Contact Data Electrical reliability data Dust resistance Thermal current Insulation voltage Protection from electrical shock Insulation category Dielectric strength Short circuit protection Plilot duty ratings	Electrical life and reliability in low level curre operations.) In extremely dusty environments, electrical life at low level current is 10 million operatio Ith = 10A per IEC 947-5-1 Ui = 660 Volts ac/dc (opposite polarity) exit Class I per IEC 536 for metal operators Class II (double insulation) per IEC 536 for Group "C" per VDE 0110 2500 Volts	life at low level current is 250, ons at 12 V, 5mA, resistive load cept 2NO and 2NC blocks 30 plastic operators 00; maximum break volt-amped 4 48 60 0 100 10 00 100 10 10 10 10 10 10 10 10 10 10 10 10 10	000 operations at 12 V, 5m/ d. 0 Vac/dc ares = 720; PF = .25) 120 240 4 10 10 6 30 6 3		ccessfully for 2.5 million

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