

Contents

12..... steb leaindaeT Tf ..... strlgil toli9 Illuminated selector switches animated selector  $\Gamma \dots \dots$  sehotiws votoeles betanimulli-noM $\delta \dots \dots$  snottud haug bətənimull 8 . . . . . . . . anottud hauq bətanimulli-noM  $\Sigma_{\cdots}$  anothud to H  $1 \ldots \gamma$  viots əbisni ədT Push buttons at a glance



# The inside story on CR104P push buttons

Contact block mounting via a single captive screw saves installation time and money. Clear contact block covers facilitate fast, precise contact inspection. Modular contact blocks can be easily added to meet circuitry requirements. block, NO/NC is white. normally open or closed. On standard single block, NO is green; NC is red. On double Color-coded plungers allow tell you quickly and accurately whether contact is Bellows-type rubber seal keeps out contaminants. Spacers are added or removed to accommodate different panel thicknesses. Rubber gasket helps seal push button against oil, water and dust. Nameplates are available in red or black, blank or with standard markings. - Octagonal mounting rings meet stringent automotive industry standards. - Snap-on caps come in eight different colors and in clear. when mounted in enclosures rated for those same applications. CR104P push buttons are suitable for use in Types 1, 3, 3R, 4, 4X, 12 and 13 applications

# Snottua joh

		numbers	golataO	·					
yilidixəli mumi	cem 1	of stnenoqmoJ	Legend plate	rof bəldməssA	Description				
Contact block (or other component)	+	Operator		ytioilqmis mumixsm					
CR104PXC1	+	CR104PBG00B1 or CR104PBG00U1	CB104PXN1BP037	CR104PBG10B1	ONI	START (Black)	SNOTTUA H2U9		
CR104PXC01	+	CR104PBG00R1 or CR104PBG00R1	CB104PXN1RP040	CR104PG01R1	INC	STOP (Red)			
CR104PXC01	+	CB104PBM00R5C	CB104PXN2RP009	CR104PBM01R5C	INC	lluq-dsu9	Emergency stop (mushroom-head)		
		CR104PBT11R5C	_	CR104PBT11R5C2	1NO-1NC	120V transformer	Iluq-dauq bətanimulli		
CR104PXL05R (lens) +	+	CR104PBT11A1S2	_	CB104PBT11G3S2	JNI-0NI	120V transformer	bebraug ,betanimulll		
CR104PXC91	+	CB104PSG21B	CB104PXN1BP057	CB104PSG21B91	1NO-1NC	ОЕŁ-ОИ (ВІ <sup>9</sup> СК)	SELECTOR		
CB104PXC91	+	CB104PSG34B	CB104PXN1BP070	CB104PSG34B91	1NO-1NC	HAND-OFF-AUTO (Black)	SWITCHES		
CB104PXL01R	+	CR104PLG22A	CB104PXN1BP025	CB104PLG22R	120V Full voltage	Red (ON)	PILOT LIGHTS		
CR104PXL01G	+	CR104PLG22A	CB104PXN1BP024	CB104PLG22G	120V Full voltage	Green (OFF)			
CR104PXL07R	+	CR104PLT32A	CB104PXN1BP025	CR104PLT32R	120V Transformer	(NO) teaT-oT-dau9 baA			
CR104PXL07G	+	CR104PLT32A	CB104PXN1BP024	CR104PLT32G	120V Transformer	Green Push-To-Test (OFF)			

# Alternate buttons for local market needs

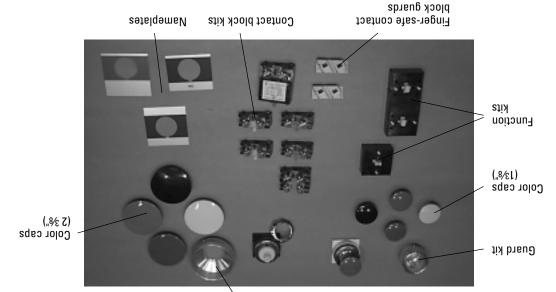
CR104PXL07G	+	CR104PLT22A	CB104PXN1BP024	CR104PLT226	120V Full voltage	Green Push-To-Test (OFF)	
CR104PXL07R	+	CR104PLT22A	CB104PXN1BP025	CR104PLT22R	120V Full voltage	(NO) teaT-oT-deu9 beA	
CR104PXL01G	+	CR104PLG32A	CB104PXN1BP024	CB104PLG32G	120V Transformer	Green (OFF)	
CR104PXL01R	+	CR104PLG32A	CB104PXN1BP025	CB104PLG32R	120V Transformer	(NO) baA	PILOT LIGHTS
CR104PXC01	+	CR104PTR20A0R	CB104PXN2RP009	CR104PTR20A0R01	INC	Push/turn-to-release	(mushroom-head)
CR104PXC01	+	CB104PBM00R5	CB104PXN2RP009	CB104PBM01R5	INC	Basic	Emergency stop
		_					PUSH BUTTONS

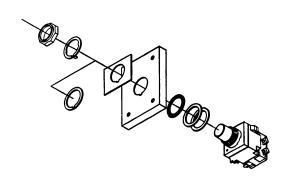
# snottua deu Push Buttons

# Accessories for push buttons Lockout attachment Contact block kits Lens kits Wobblestick kit caps Function kits Protective Function block guards Diock guards

### Accessories for mushroom-head push buttons

Guards for mushroomhead operators





Push Button Cap • Interchangeable, snap-in design

• 9 colors: red, black, green, brown, yellow, orange, blue, white, clear

**Mushroom Head** • 2 sizes: 1 3/8", 2 3/8"

• 4 colors: black, red, green, yellow

Mounting Ring

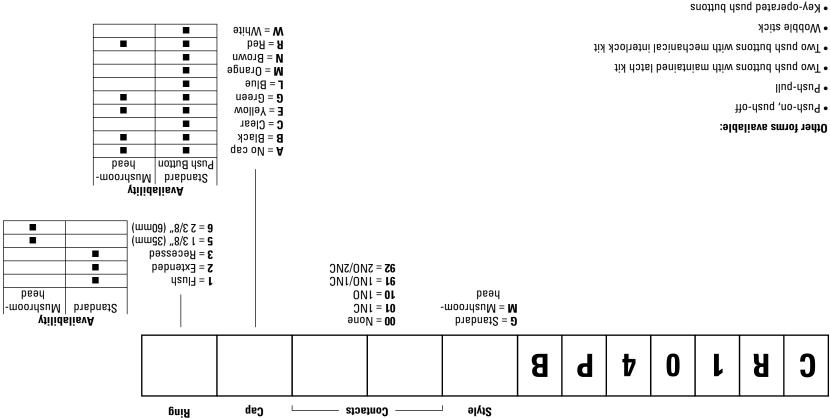
Interchangeable design allows for flush, recessed or extended style on the same operator

Contact Blocks • Color coded for quick installation

 Maximum of 8 single or 4 double contact blocks

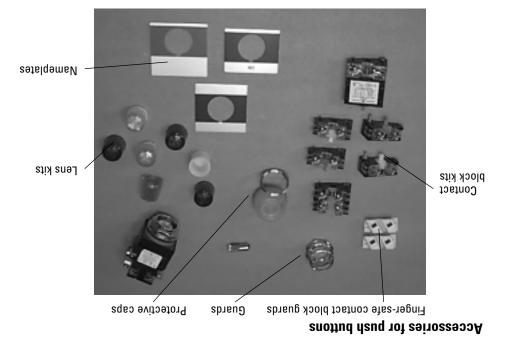
Visible contacts for easy, accurate inspections

 Special applications: early close, late open, gold flashed, reed switch

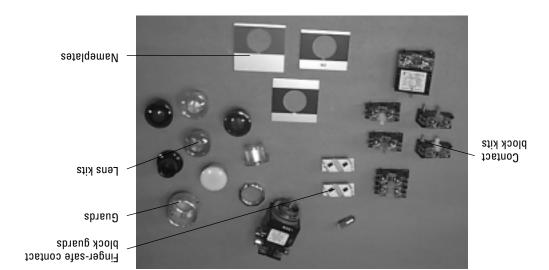


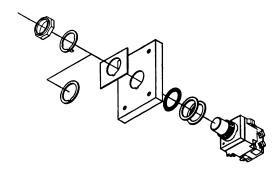
rings separately. and order any necessary recessed or extended samples, order above components for field assembly distributor stock (CR104PG00U1,V1). For 0EM contact blocks. These items are typically in operator with color cap universal kit and separate Tip for Quick Service: For small quantities, order

# snottua de Push Buttons



### Accessories for mushroom-head push buttons





Lens Cap • Interchangeable, threaded-on design

• 6 colors: red, green, yellow, amber,

Mushroom Head • 1 3/8"

 6 colors: red, green, yellow, amber, blue, white + clear

Mounting Ring • Standard or guarded

**Lamp** • Incandescent, LED, neon

Power Supply • 3 types: Full voltage, transformer,

Contact Blocks • Color coded for quick installation

• Maximum of 4 single or 2 double

contact blocks

Visible contacts for easy, accurate inspections

Special applications: early close, late open, gold flashed, reed switch

Flashing

Incandescent

ΓED

Transformer

IΙΑ

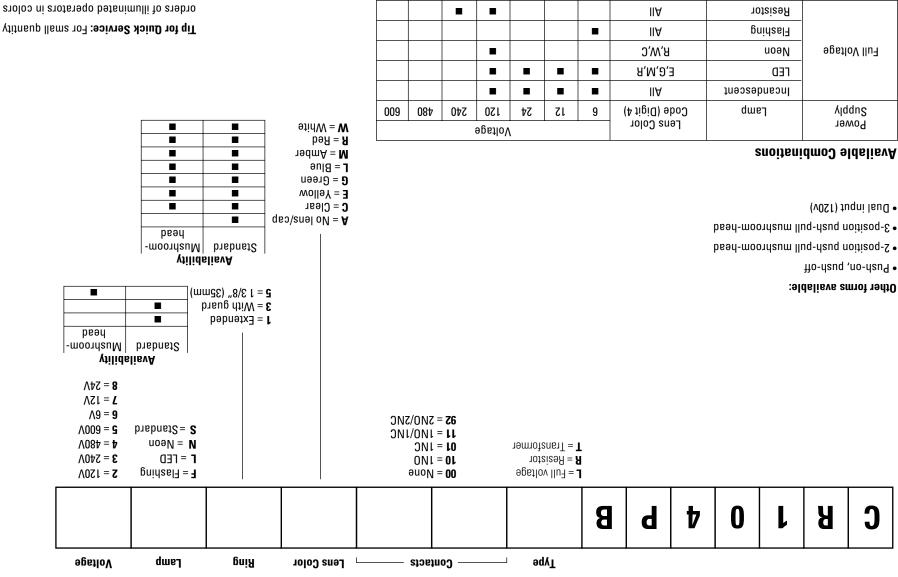
E,G,M,R

IJΑ

lenses separately.

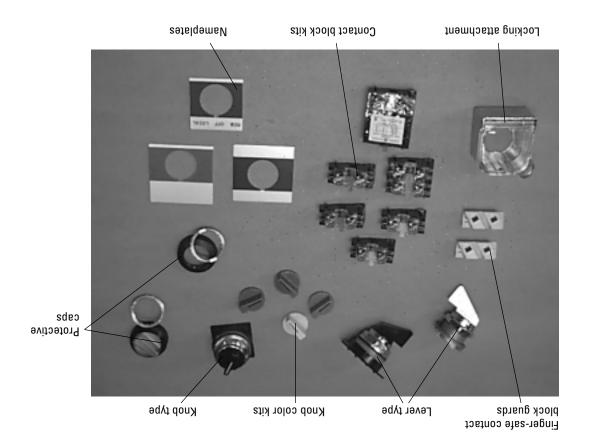
with red/green lens and order other color

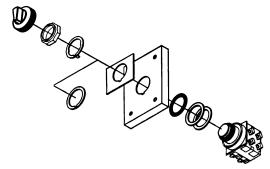
other than red or green, order operator



# Non-illuminated Selector Switches, 2-position

# Accessories





Knob • Interchangeable design

 5 colors: red, green, yellow, blue, black + levers in black and chrome for gloved-hand operation

Operator With Cam • 2-position forms

• Multiple cam configurations allow optimum versatility

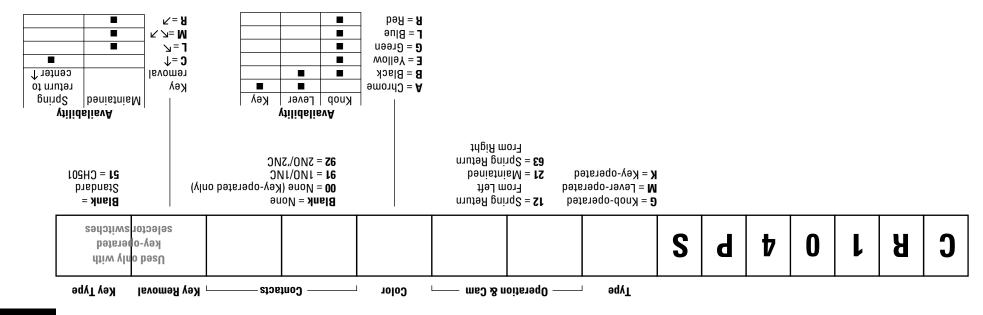
• Maintained and spring return forms

Contact Blocks • Color coded for quick installation

 Maximum of 6 single or 6 double contact blocks

• Visible contacts for easy, accurate inspections

 Special applications: gold flashed, reed switch



### Operation & Cam



with black knob or chrome lever.

black knob; cam 21 is normally stocked

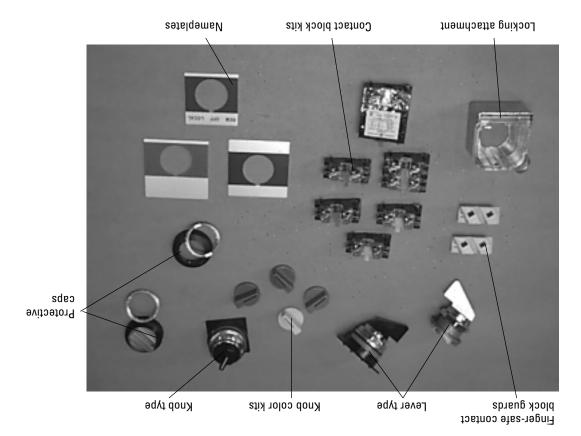
rately. Cam 12 is normally stocked with order operator and contact blocks sepacontact configurations other than 91 or 92, orders of 2-position selector switches with Tip for Quick Service: For small quantity facing operator

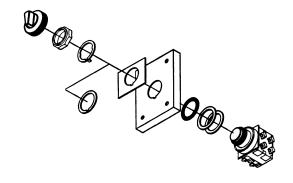
Contact gnitnuoM	∱0 aqγT	noi	tieo9 rotere	eq0			
noitieoA	tostnoð	⊼ thgiA	↑ rətnəƏ	⊿ ĦəJ	Operation		
Left or Right Left or Right	NO NC		0 X	X 0	(S1) thel mort nruter gnirg2		
Left or Right Left or Right	NO NC	X 0		0 X	(IS) bənistnisM		
Left or Right Left or Right	NO NC	X 0	0 X		(£8) Jdgir mort nrutər gnirq2		
no hetniiom hi	Moter When using double contact block 91 MC contact is that closest to and mounted on						

to the operator on each side. the left side of the operator. When using double contact block 92, NC contact is that closest Note: When using double contact block 91, NV contact is that closest to and mounted on

# Non-illuminated Selector Switches, 3-position

### Accessories





Knob • Interchangeable design

 5 colors: red, green, yellow, blue, black + levers in black and chrome for gloved-hand operation

Operator With Cam • 3-position forms

Multiple cam configurations allow optimum versatility

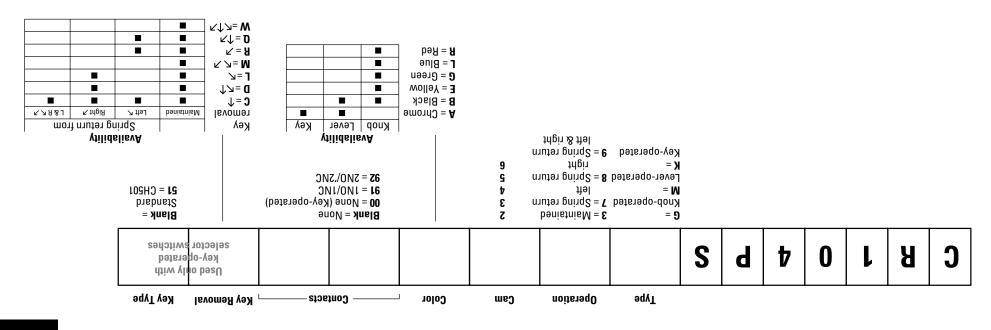
• Maintained and spring return forms

Contact Blocks • Color coded for quick installation

 Maximum of 6 single or 6 double contact blocks

• Visible contacts for easy, accurate inspections

 Special applications: gold flashed, reed switch



meJ

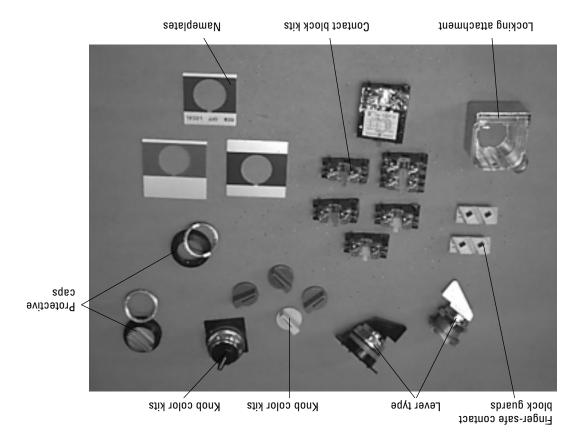
	wəiv syswlA ao pnisst
dsT /	
thgiA	л <sub>э</sub> л

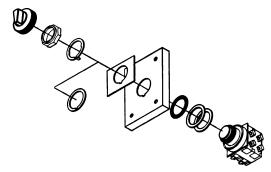
for mechanical review. stock. Use 34B, 74B and 94B as samples cam and color combination variations are Tip for Quick Service: Not all operator,

Contact Mounting	10 aqyT Sontact	u	epoე		
noitieo¶			↑ refred	7 ffeJ	
Left or Right Left or Right	NO NC	0	0 X	X 0	7
Left or Right Left or Right	NO NC	X 0	0 X	0	3
Left or Right Left or Right	NO NC	X 0	0	0 X	ħ
tleft tlgiA tlgiA ro tlebt	ON ON ON	X 0 0	0 X 0	0 0 X	G
Hed Hed Heiß Heiß	NO NC NO NC	0 X X 0	0 X 0 X	X 0 0 X	9

# Non-illuminated Selector Switches, 4-position

### Accessories





Knob • Interchangeable design

 5 colors: red, green, yellow, blue, black + levers in black and chrome for gloved-hand operation

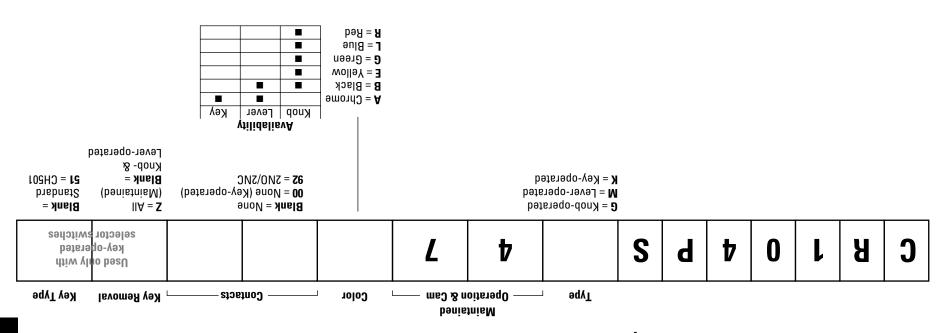
Operator With Cam • 4-position forms

Contact Blocks • Color coded for quick installation

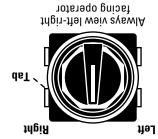
• Maximum of 2 double contact blocks

• Visible contacts for easy, accurate inspections

 Special applications: gold flashed, reed switch



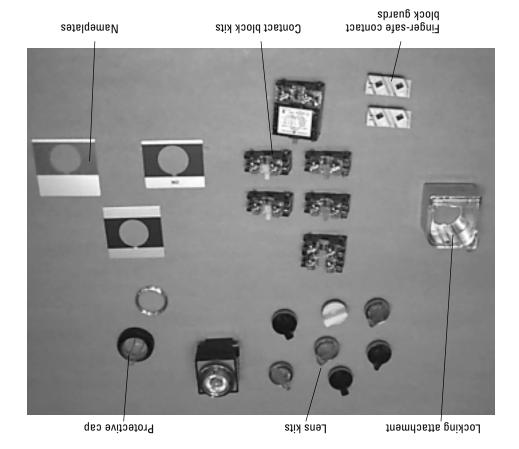
Operation & Cam

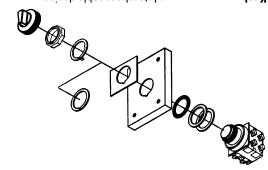


3116111	011							
HgiA	ON	U	U	Х	U			
HgiA	NC	Х	0	0	0			
ηθη	ON	0	Х	0	0			
ηθη	NC	0	0	0	Χ			
gnitnuoM noitieo9	Contact	⊼ tdgiA	↑ Jdgin-biM	⊅ Həl-biM	⊅ ñ9J			
Contact	Type Of	noitizo¶ notaraq0						

# Illuminated Selector Switches, 2-position

# Accessories





Knob • Interchangeable design

 6 colors: red, green, yellow, blue, amber, white + clear

**Famp** • Incandescent, LED, neon

Operator With Cam • 2-position forms

• Multiple cam configurations allow optimum versatility

• Maintained and spring return forms

Power Supply • 3 types: full voltage, transformer, recistor

Contact Blocks • Color coded for quick installation

 Maximum of 4 single or 2 double contact blocks

• Visible contacts for easy, accurate

inspections

 Special applications: gold flashed, reed switch

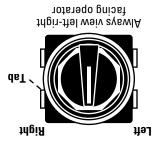
2 = 120V 3 = 240V 4 = 480V 5 = 600V 6 = 6V 7 = 12V 7 = 12V 8 = 24V	<b>L</b> = LED		= 10 = 01 = 11	A = None C = Clear E = Yellow G = Green L = Blue M = Amber R = Red			e Full voltage T = Transformer							
					l	2		S	Ь	7	0	l	Я	<b>C</b>
Voltage	dwe7	acts ———a	JuoJ —	Color		stnisM roitstagO	Power Supply						•	

# Available Combinations

Operation & Cam

	egestloV						Lens Color	Power Supply
009	480	240	120	24	12	9	əpoŋ	dmeJ %
							IIΑ	Full Voltage
							E,G,M,R	Full Voltage LED
							IIΑ	Transformer
							E,G,M,R	Transformer LED
							IIΑ	Resistor
							B,W,C	Neon

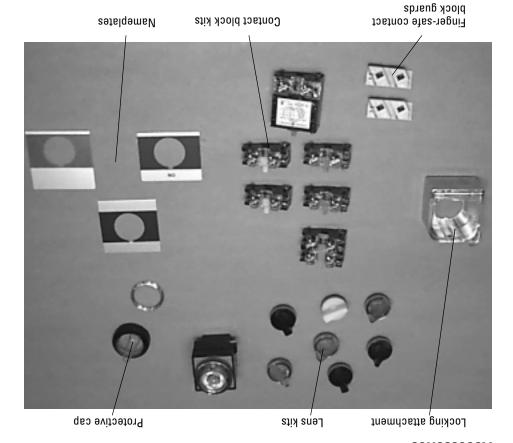
tastnoð gnitnuoM	↑O əq√T	noitiso9	Operator	
noitieo9	toeinoð	⊼ JdgiA	⊅ ffe∫l	Operation
Left or Right Left or Right	NO NC	X 0	0 X	(12)bənistnisM
6				

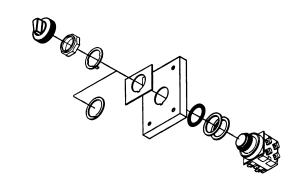


Tip for Quick Service: For small quantities, order selector switch without lens; order lenses E, G, L, M or R; and contact blocks separately.

# Illuminated Selector Switches, 3-position

# Accessories





Knob • Interchangeable design • 6 colors: red green yellow

• 6 colors: red, green, yellow, blue, amber, white + clear

**ramp** • Incandescent, LED, neon

Operator With Cam • 3-position forms

Multiple cam configurations allow optimum versatility

• Maintained and spring return forms

Power Supply • 3 types: full voltage, transformer,

Contact Blocks • Color coded for quick installation

• Maximum of 4 single or 2 double contact blocks

Visible contacts for easy, accurate inspections

Special applications: gold flashed,

reed switch

2 = 1200 3 = 2400 4 = 4800 5 = 6000 5 = 6000 5 = 6000 5 = 6000 5 = 6000	<b>L</b> = LED <b>S</b> = Standard	0 = None   = 1NO/1NC   = 1NC   = 1NC	10 11 22 1	<b>C</b> = Clear <b>E</b> = Yellow <b>G</b> = Green <b>L</b> = Blue <b>M</b> = Mmber <b>R</b> = Red <b>R</b> = Red <b>M</b> = White	9 7 7	bənistnisM = <b>£</b> gninq <b>2 = 0</b> thel nrutər thgir <b>&amp;</b>	<b>L</b> = Full voltage <b>T</b> = Transformer							
								S	d	ל	0	L	Я	3
Voltage	dwe7	ontacts ———	თე ———	Color	meJ	Operation	Power Supply							

# **Available Combinations**

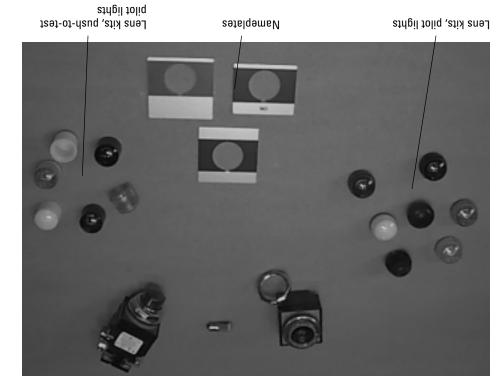
			Voltage	r Supply Lens Color			Power Supply	
009	081	240	120	24	12	9	əpoƏ	gr Lamp
							IIA	Full Voltage
							E,G,M,R	Full Voltage LED
							IIA	Transformer
							E,G,M,R	Transformer LED
							B,W,C	Neon

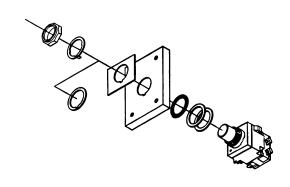
Always view left-right facing operator
dsT .
theif the

					ຸ ເພຍງ
Contact gnisnuoM	10 aqyT tostnoO	noi	iso9 10381	ed0	msJ aboJ
noitico9		<b>₹</b> JdgiA	♣ reter ♣	≯ ii9J	
Left or Right Left or Right	NO NC	0 0	0 X	X 0	7
Left or Right Left or Right	ON ON	X 0	0	0 X	ħ
		-	_		<del>                                     </del>
119J 1241	NO NC	X 0	0 X	0 X	9
tdgiA tdgiA	NO NC	0 X	0 X	X 0	
าแด้แน	ON	0	0	V	

# Pilot Lights

# Accessories





Lens Cap • Interchangeable, threaded-on design • 6 colors: red, green,

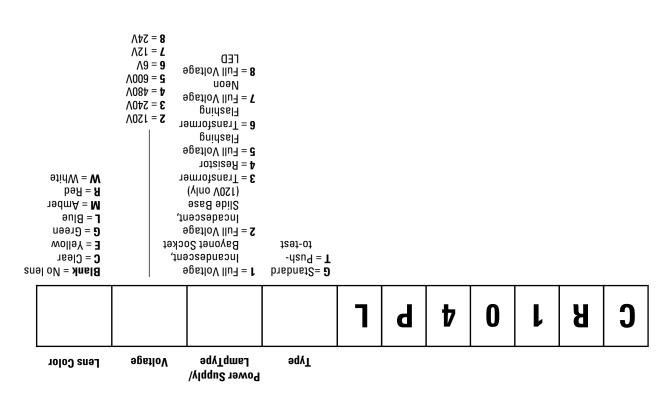
yellow, amber, blue, white + clear

**ramp** • Incandescent, LED, neon

Power Supply • 3 types: Full voltage, transformer, resistor

• Standard or push-to-test

Pilot Lights



### Available Combinations

			•			•	R,M,8,3	Full Voltage LED
			•				D,W,R	Full Voltage Neon
							IIA	Transformer Flashing
							IIA	Full Voltage Flashing
							IIA	Full Voltage Resistor
							IIA	Transformer
							IIA	Full Voltage Incandescent, Slide Base
			•			-	IIA	Full Voltage Incandescent, Bayonet Socket
009	087	240	120	24	12	9	əpoŋ	& Lamp
			Voltage				Lens Color	Power Supply

**Tip for Quick Service:** For small quantity orders of units with lens colors other than red or green, order operator without lens and lens separately.

# Special Forms

CR104PXP	S Watt, 100 to 5MM Ohms	Potentiometer Operators	
Tq401RJ.	Early Close Late Open 2- & 3-position	enottu8 deu9 muT-deu9	
CR104PTR CR104PBM CR104PBT	Push-to-Latch, Turn-to-Release Protected (Metal Rim), Non-illuminated & Illuminated Push-Pull, Non-illuminated, 2- & 3-position Push-Pull, Illuminated, 2- & 3-position Reed Switch	Special Mushroom-head Push Buttons Special Contact Blocks	
Catalog Number	Description	ltem	

CB104PE	Sheet- & Stainless-Steel, 1 to 25 Operators	Enclosures	
СВ104РВК	Lock Capability in Any Position	Cylinder Lock	
CB104PBG99	ysigh eligible become 25.	Time Delay Push Buttons	
СВ10 <del>4</del> РВL	stoperators Ull III III III III III III III III III	słńgiJ łseT ełomeA	
CB104PLB & CB104PLQ	2- & 4-lamp; 6V, 12V & 24V Full Voltage	Cluster Lights	
CB104PJ	3-, 5- & 9-position, Momentary & Maintained	Joysticks	The second secon

# General specifications

Torque requirements	Terminal screws: 10-14 in-lbs	sdI-ni 41-0I	
ezis eriW	bilos 10 bebnasts DWA S1-SS	er wire	
aa tat Ruumaada	Without contact blocks With 1NO contact blocks With 3 NO contact blocks	3.5 lbf 3.5 lbf 3.5 lbf 3.5 lbf 3.6 lbf 1 lbf	Snother Albands 2.2.101124 3.5.101 3.5.101 3.5 101 3.5.101
Shock and vibration  Operating force	Aesistance to shock - 50g, 11 Frequency range - 1-100 Hz Vibration amplitude - 1-13.2-100	mmf± tnemeoslqzi gT.O± notierelecse beseeder teceseed	Asulf brabnat2
Climate suitability/humate	Olimate Type Temperate Wet Hot Wet Yariable Wet	14°-104v F (23° to 40° C) 74°F (23°C) 74°F (23°C) <u>74°F (23°C)</u>	<u>АтірітиН әтітеləЯ</u> 50% 83% 92% 83%-92%
Тетрегаїиге гапде	<u>Operating</u> -25° to +70° C -13° to +158° F	<u>Storage</u> -40° to +70° C -40° to 158° F	
Finger protection at terminals	<b>IP2X</b> according to IEC 529 Terminal identification per <b>CE</b>	EC EN 20013	
Enclosure ratings	mounted in enclosures rated tions, protective caps will pro	AM Type 1, 3, 3R, 3S, 4, 4X, 12 ar nose same applications. For som improved corrosion resistance.	-soilqqs X <del>I</del> AM3N ən
slavordqs & sbrabnat?	<b>UL Listed</b> - File Number E2403 <b>CSA Certified</b> - LR15492, Class <b>IEC</b> 947.5.1 <b>VDE</b> 0660		

# 22

# **Technical Data**

# Contacts

ower supply resistor alues	<u>Input</u> 120V AC/DC 240V AC/DC		<u>1012 isaA</u> 2750 ohms ±5%, 5 watts 2700 ohms ±5%, 5 sitew 5	, 2 resistors in seric	
	(AV) sttsw ,əvitsisəA		mumixsm AV 8	<b>ΔV 2.</b> μ	шитіхет
	Continuous current (maxim	(wn	A 31100.	.00.	A 211
	Operating voltage		2-120 VAC	5-3	ο ΛDC
eed switch block ratings			agnitar JA	рс	s g n i t s r
	ι·ι		0.55		2.0
	JS2V		520Λ	9	Λ009
O ratings, NEMA P600		m mumixsM	nm make or break amper	res	
	1 Maximum make and break curre	ns 8 bns 08 ars str	nd 6 amperes respectively for v	wolad bns 021 to sagatlo	,
	009		01	7200	<i>1</i> 50
Oosa AM3V, aginiss, J. eavy Pilot Duty	JA mumixsM egstlov		ontinuous current amperes	АС voltampere Маке	ss @ 60/50 Hz¹
	ot) noitos gans OM bns OM				
	v 005 wolad pninsalo-fla2				
	Opposite polarity				
	NO: slow make, double br	зак			
soitsiretosrado tostno	NC: slow make, double br	ak (positive op	(gninəqo əvi		
slanimrət ətas rəgni	Available for silver and go	etnoo elgnis b	contact blocks, as compo	esse se bne stnend	mbled versions
	Insulation category Dielectric strength Short circuit protection	720	Of roup C per VDE 0110 2600V 10A time delay fuse gO		8.9
	Protection from electrical		Class I per IEC 536 for double insulation) per		
	Insulation voltage	· iU	JU/JA V099 = iU		
	Thermal current	<b>√</b> 01	10A per IEC 947-5-1		
lectrical characteristics	<u>Characteristic</u>	<u>lsV</u>	Value		
lectrical reliability data	With indicating light loads no failures observed.	no'c ini naisai	מוסטיסטיר וע	POLACII DIID WIIIOF I	

Mounting

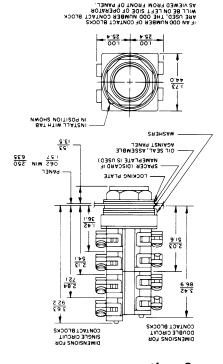
# Mechanical life ratings

000'000'l	Time-delay push buttons
000'000'ι	Selector push buttons
200'000	Key operated push buttons
000'000'ι	Wobble sticks
200'000	Toggle switches
200'000	<b>η</b> ολετίς <i>κ</i> ε
000'000'ι	Selector switches (all)
200'000	Maintained & push to latch, turn to release mushroom-head push buttons
3,000,000	Momentary mushroom-head push buttons
000'000'1	llluminated push buttons (including push on/push off)
3,000,000	Standard push buttons
Number of <u>Operations</u>	Орегатог

# Electrical life ratings

Push buttons - 5,000,000 operations Selector switches - 500,000 operations

# Dual Dimensions Inches/Millimeters (For Estimating Only)



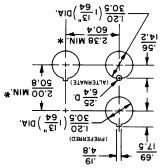
Acceptable panel thickness - 0.04 - 0.25 inches (mm 35.9 - 20.1)

For dimensional information on other operators, contact nearest GE Electrical Distribution & Control sales office. Manufacturing tolerances apply to all untoleranced dimensions.

# Panel thickness (inches) No. of washers required

0	25.
l	881.
7	321.
7	£60 <sup>.</sup>
3	Z90 <sup>.</sup>

# Duilling Plan, Dual Dimensions Inches/Millimeters eo. eo.



and gaskets to ensure an oiltight, uniform front protrusion.

CR104P push buttons are designed for front mounting, with

or without nameplates, in 1 13/64" diameter holes. Operators are provided with an octagonal ring, spacers

# Lamp selection

Incandescent, neon and light emitting diode (LED) lamps are available for use in indicating lights, illuminated push buttons and illuminated selector switches. Although incandescent lamps have traditionally been the most appropriate for the application. Although the characteristics of the different types of lamps and select the one that is most appropriate for the application. Although the incandescent lamp offers the lowest initial cost, the LED is usually the most economical over the long term, due to its long life, resistance to shock and vibration, and lower power consumption. Benefits of LEDs include:

- Resistance to shock and vibration Since LEDs are solid state, they are completely impervious to the problems associated
  with shock and vibration that can significantly reduce the life of incandescent lamps by mechanically breaking the filament. The high inrush currents at startup associated with incandescents also act to significantly reduce the life of lamps
  used in frequent on-off applications.
- Longer Life The LEDs used with CR104P push buttons have a service life of 100,000 hours (11 years) compared to 20,000 hours (28 months) for the standard incandescent lamps.
- Reduced Power Consumption The LEDs used for the CR104P push buttons consume between 10% and 52% less power than the equivalent incandescent lamp. The table below shows the power consumption of each type:

sttsW	Neon CR104P	stisW	LED CR104P	stisW	Incandescent CR104P	Od/JA eflov	Lλbe
_	_	<del>1</del> 9:0	*8£AX9	<b>9</b> 6 <sup>.</sup>	81AX9	6 (20,000 hours)	Full voltage/
_	_	27.0	*SEAX9	วเ.เ	SIAX9	12 (15,000 hours)	transformer
_	_	27.0	*4£AX9	1.12	₽ſΑΧ٩	24 (2,500 hours)	
_	_	_	_	3	22AX9	120 (slide base)	
	61AX9	2.1	*8£AX9	9.2	₽XA54	130 (bayonet socket)	
_	_	_	_	3	22AX9	240	Resistor
_	_	_	_		ðſ∆X9	120	
_	_	_	_	96.	SSAX9	12	Cluster Lights
_	_	_	_	1.12	42AX9	24	
_	_	_	_	2.1	92AX9	9	

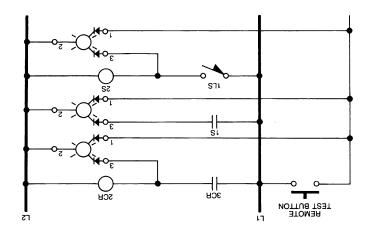
- Lower Operating Temperature Because of the lower power consumption and greater efficiency of LEDs, they operate much cooler than incandescent lamps. Thus, in applications where heat in the enclosure could be a problem, LED lamps are a better choice.
- Incandescent bulbs are recommended for light duty applications and panels not subject to shock and vibration. Neon lamps offer a middle ground, at a cost and performance between the LED and the incandescent, but can have problems associated with flicker induced by noise and frequency. LED lamps offer the best overall performance for the long term.

### Materials

Locking attachment
Protective caps
Кеу
Wobble stick
Push button guards
Contacts
Gasket
Verminal screw
Joystick protective housings
Cam follower
ເພຍ
Contact block housing
Brin IsnogsxəH
Locking ring
Locking plate
Plate spacer
Grease
Flange
White plunger
Plastic housing
sgnisuod leteM
(bətsnimulli) qsJ
(bətanimulli-non) qaƏ
Component

### Dual input illuminated push buttons (also called remote test lights)

Dual input illuminated push buttons and indicating lights allow a number of lights to be tested from a single test button without operating the control circuit. A dual input illuminated push button without contacts becomes a remote test indicating light.



Typical wiring diagram for remote test of lights using dual input "remote test" lights.

### Lamp comparison

					ı
Том	M07	γοη	muibəM	20,000	Neon
АgiH	dgiH	ЧвіН	γον	2,000	Incandescent
muibəM	muibəM	muibəM	АвіН	100,000	TED
seanthgird	Power consumption	Operating temperature	Shock & vibration immunity	Lifespan (hours)	Bulb type

### Potentiometers

3°0√ ts mumixsm stsw S	
Dielectric strength	1000Vac
End resistance	mumixem emdo 4
Resistance	100 ohms ±10% (list resistance by catalog number)

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704.966.0 7089-3 71M1048 757200264 778000A56 79215938 MHU35 MHU37 825.003.011 825.005.011 825.053.011 825.055.011
826.000.071 827.020.011 827.400.021 835.900.023 MML52C10C MML52E10C MML72EEK MML92HGH MML93K 84211M02CNNS
84211M02LGRS 84211M02LNNX3