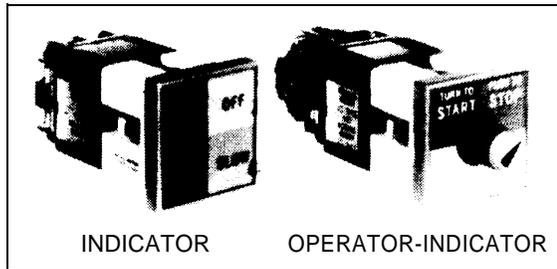


Installation Instructions for coordinated manual controls

PK 83004

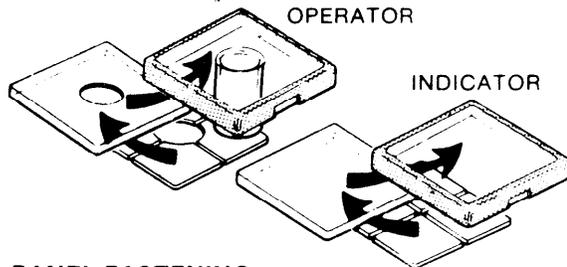


CMC devices are furnished to you in fast-assembly modules to provide specific control or indicator devices.

COVER ASSEMBLY

The cover assembly consists of four color snap-inserts, a legend plate, and a cover plate. Assemble as follows:

1. Place the color snap-inserts into the back of the legend plate according to the color desired behind the legend.
2. Insert the legend plate and color snap-inserts into the cover plate.



PANEL FASTENING

Remove lamp holder from the lamp housing. This exposes four mounting lugs locked in their shipping positions. Insert the unit with the location arrow position shown at right. Turn each screw counterclockwise, until the lug clears the back panel. Then turn clockwise until the lug engages the back panel tighten only 1/4 to 1/2 turn.

CAUTION: When the lugs have engaged the back of the panel, tighten only 1/4 to 1/2 turn. Lug stays in position without excessive tightening.

The following groups make up a complete CMC unit:

INDICATOR

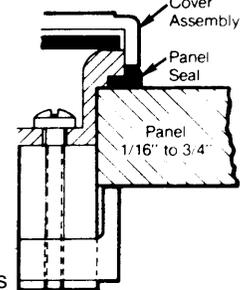
Cover Plate and Color Inserts - Group 906---
Legend Plate - Group 907AUS
Indicator Assembly - Group 908

OPERATOR-INDICATOR

Cover Plate and Color Inserts - Group 906---
Legend Plate - Group 907BUS
Pushbutton, Selector or Selector-Push - Group 909, 910, 911, 913 or 914
Contact Blocks - PTCC, PTCB, etc.
4 Plunger Adapter Kit (optional) - PTCA

SEAL ASSEMBLY

All CMC Operators and/or Indicators are equipped with a panel seal. After the unit is mounted in the panel, place the seal around the unit and into the groove between the panel and housing. To properly seat the seal, snap the cover assembly firmly into place.

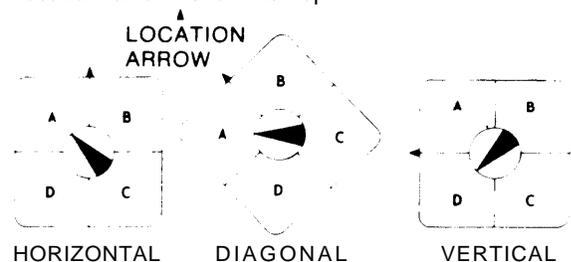


For effective sealing CMCs require panel on all 4 sides.

Be sure front of panel is free of burrs and clean before installing unit. See panel fastening CAUTION and panel cutout recommendations.

HORIZONTAL MOUNTING

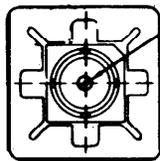
All CMC devices as shipped from the factory are oriented for mounting in horizontal rows, i.e., location arrow is at the top.



VERTICAL MOUNTING ADJUSTMENT

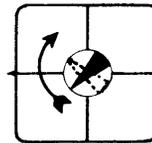
For 5 Terminal Units on Minimum Centers (Not applicable to 4 or 8 terminal units)

To mount in vertical columns, the Selector pointer will require changing 90° clockwise as follows:



Grasp and pull screw head outward to free operating knob for positioning 90° clockwise.

back view

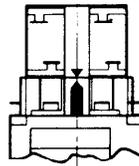


Release screw head and turn knob slightly back and forth to seat with cam mechanism.

adjustment

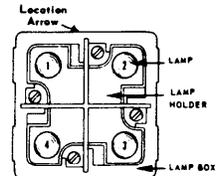
CONTACT BLOCKS

To arrange contact blocks in the correct order, note the embossed location arrow on the mounting boss. All contact blocks should be mounted with these arrows on the same side, and installed so as to match with the location arrow on the lamp assembly.



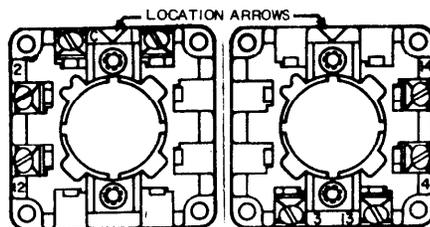
4, 5 and 8 TERMINAL CONSTRUCTION

All CMC units are available in either 4, 5, or 8 terminal construction for operating indicator lamps. Each terminal construction is offered with 120 or 240 VAC transformers, and also without transformers and lamps for low energy circuits.

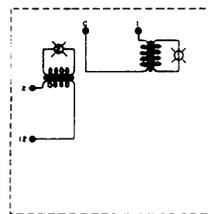


4 TERMINAL CONSTRUCTION

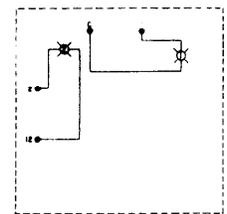
Four terminal construction provides two separate leads for each lamp in the two CMC units. For electrical clearance, four terminal units require .969 inch (24.6 mm) minimum spacing on sides where terminals are located.



To light quadrants A and B
To light quadrants C and D
4 terminal, C is not common



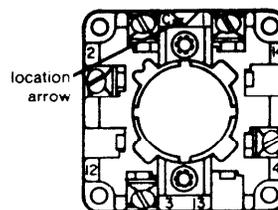
4 terminals with transformers



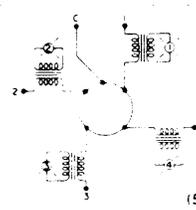
4 terminals less transformers

5 TERMINAL CONSTRUCTION

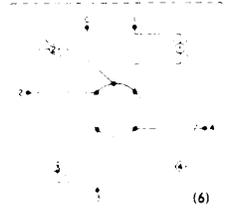
Five terminal construction uses a common terminal (C). Minimum center mounting is possible with five terminal construction. Units may be placed adjacent to one another within .334" (8.7 mm) in either horizontal or vertical rows.



5 terminals C is common



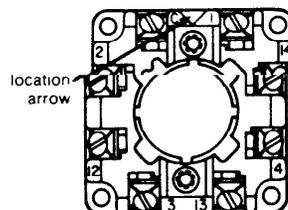
5 terminals with transformers



5 terminals less transformers

8 TERMINAL CONSTRUCTION

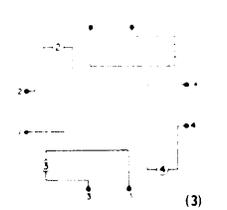
Eight terminal construction provides two separate leads for each lamp. For electrical clearance, eight terminal units require .969" (24.6 mm) minimum spacing on all sides.



8 terminals C is not common

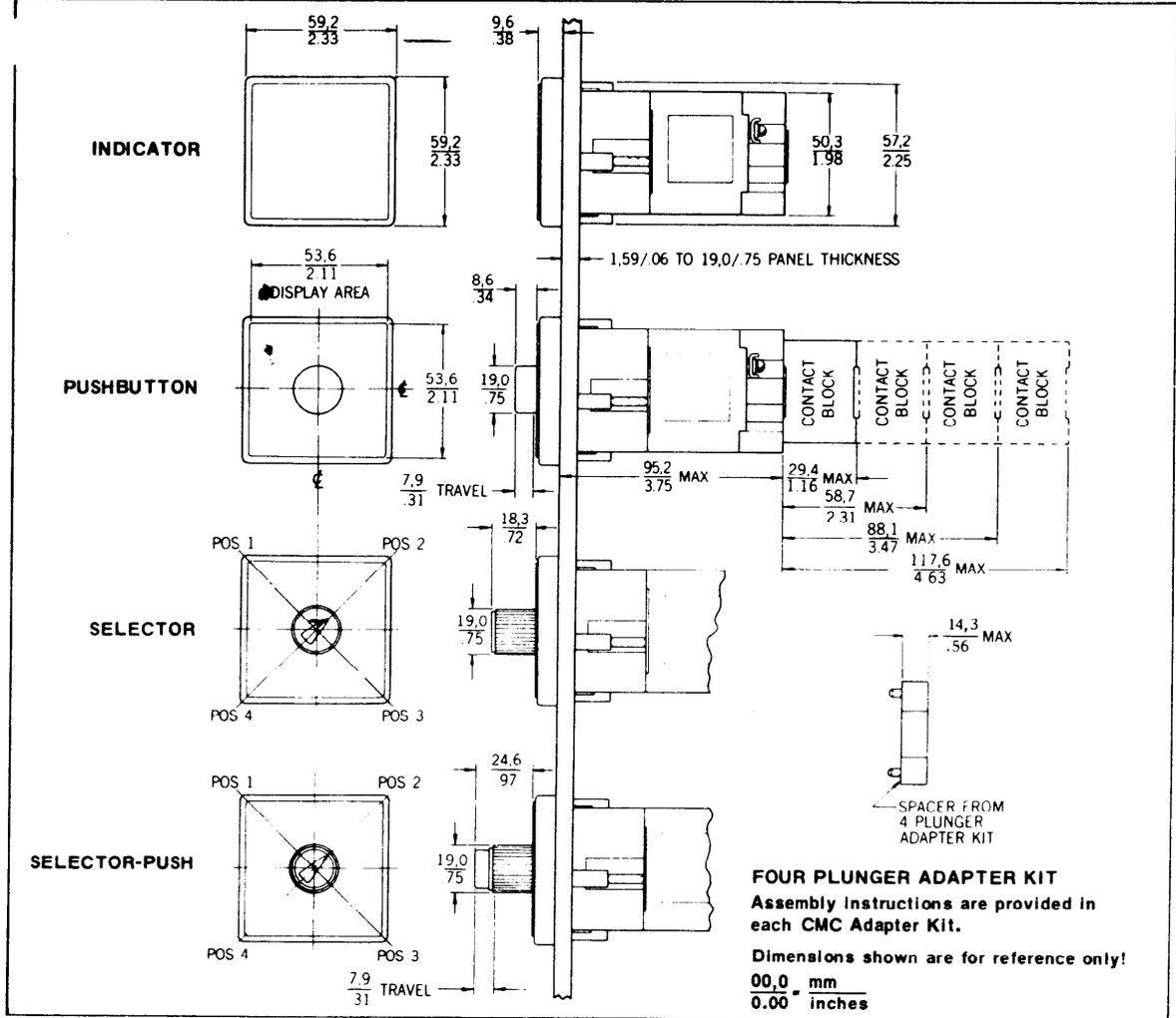


8 terminals with transformers

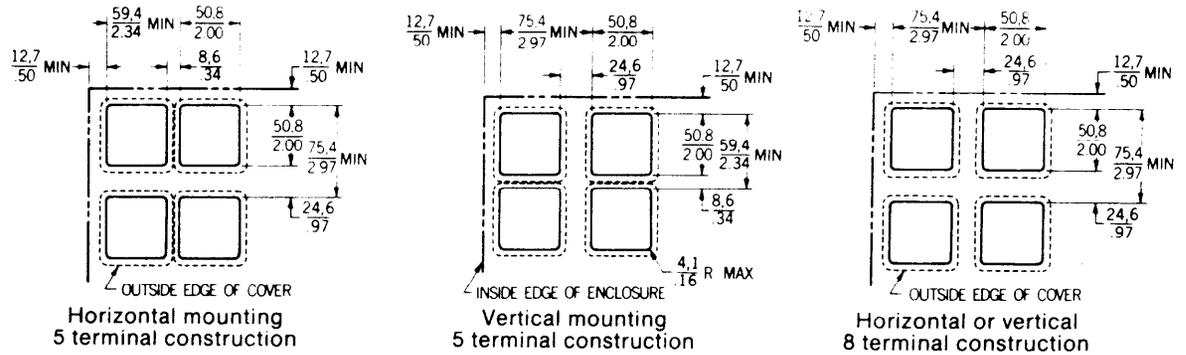


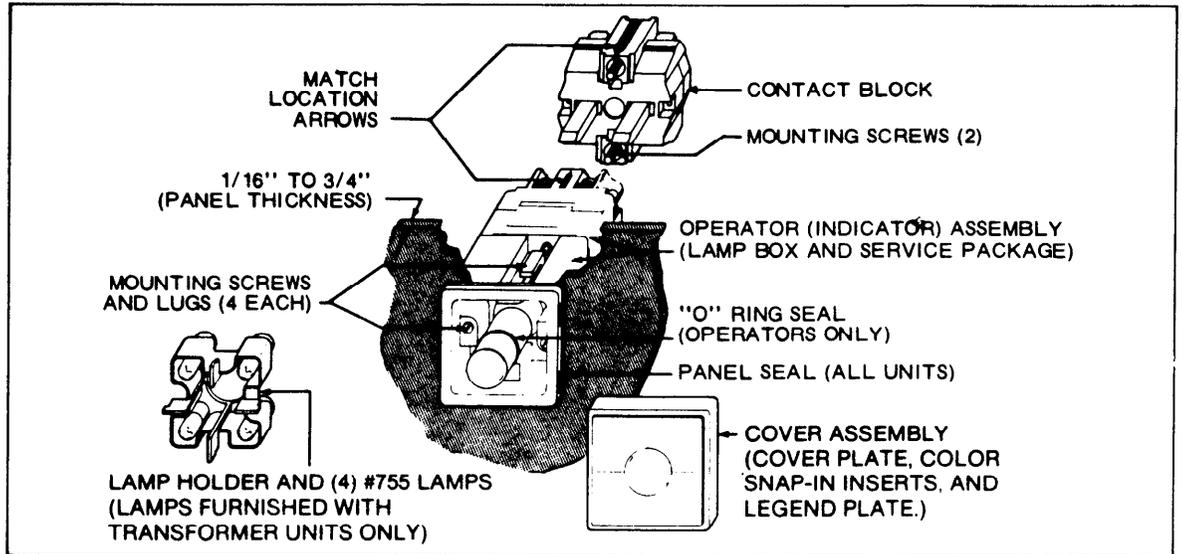
8 terminals less transformers

UNIT DIMENSIONS



PANEL CUTOUT RECOMMENDATIONS





CHECK CATALOG 70 FOR MORE INFORMATION

LAMPS

Suggested T-3 1/4 lamps for quadrants without transformers

Lamp Type	Voltage	Current Amps	Life (Hrs)	Ambient Light Level		Mean Standard Candle Power	Available From These Suppliers
				Medium 5-25 Ft-C	High 25 Ft-C and UP		
1850	5.0	.09	1,500	X		0.25	CMLW
756	14.0	.08	15,000	X		0.31	CMLW, GE
1819	28.0	.022	2,500	X		0.34	GE
1847	6.3	.15	5,000		X	0.38	CMLW, GE
47	6.3	.15	3,000		X	0.52	CMLW, GE, TS
755	6.3	.15	20,000		X	0.33	CMLW

CMLW - Chicago Miniature Lamp Works GE - General Electric TS - Tung-Sol

WARRANTY

Seller warrants its products to be free from defects in design, material and workmanship under normal use and service, and Seller will repair or replace without charge any such product it finds to be so defective on its return to Seller within 18 months after date of shipment by Seller. **The foregoing is in lieu of all other expressed or implied warranties [except of title], including those of merchantability and fitness for a particular purpose.**

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