

**DESCRIPTION**

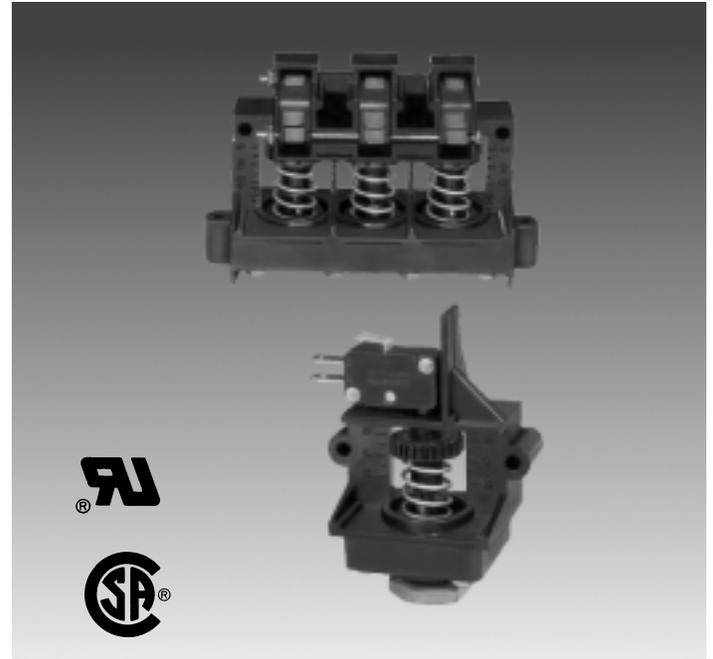
CCE-3001 and 3011 are single-stage pneumatic-electric relays. They are used where a single pneumatic air signal requires one predetermined pneumatic air pressure setting to actuate one electric switch.

CCE-3002 and 3012 are two-stage pneumatic-electric relays. The CCE-3003 and 3013 are three-stage pneumatic-electric relays. These relays are used where a single pneumatic air signal requires two or three predetermined pneumatic air pressure settings, each to actuate its own electric switch.

These relays are CSA & UL Recognized, and the electrical ratings make them ideal for applications such as starting fan induction terminals, controlling one, two or three stages of electric heat, or one, two or three stages of refrigeration.

**SPECIFICATIONS**

<b>Setpoint Range</b>	2 to 20 psig (14 to 138 kPa)
<b>Differential</b>	1 psi minimum/2 psi maximum (7 kPa/14 kPa)
<b>Pressure</b>	30 psig maximum (207 kPa)
<b>Connections</b>	
Air	3/16" (5 mm) nipple for 1/4" (6 mm) OD polyethylene tubing
Electrical	1/4" quick connect terminals
<b>Switching Action</b>	SPDT each stage
<b>Electrical Ratings</b>	
CCE-3001/2/3	25 amps each switch (non-inductive) @ 120 - 240 - 277 VAC, 1 HP @ 125 VAC, 2 HP @ <u>250</u> VAC 750 VA Pilot duty
CCE-3011/12/13	21 amps each switch (non-inductive) @ 120 - 240 - 277 VAC, 1 HP @ 125 VAC, 2 HP @ <u>250</u> VAC 750 VA Pitot duty
<b>Weight</b>	
CCE-3001/11	2 oz (57 grams)
CCE-3002/12	4.5 oz (128 grams)
CCE-3003/13	5 oz (142 grams)
<b>Material</b>	
Housing	Black polycarbonate
Diaphragm	Silicone
<b>Ambient Limits</b>	
Operating	40°F to 150°F (4°C to 60°C)
Shipping	-40°F to 150°F (-40°C to 60°C)
<b>Approval Listings</b>	CSA & UL Recognized Patent Number 4,855,545 (CCE-3002 and 3003)



**MODELS**

- CCE-3001 .....One stage, 25 amps
- CCE-3002 .....Two stage, 25 amps
- CCE-3003 .....Three stage, 25 amps
- CCE-3011 .....One stage, 21 amps
- CCE-3012 .....Two stage, 21 amps
- CCE-3013 .....Three stage, 21 amps

**ORDERING**

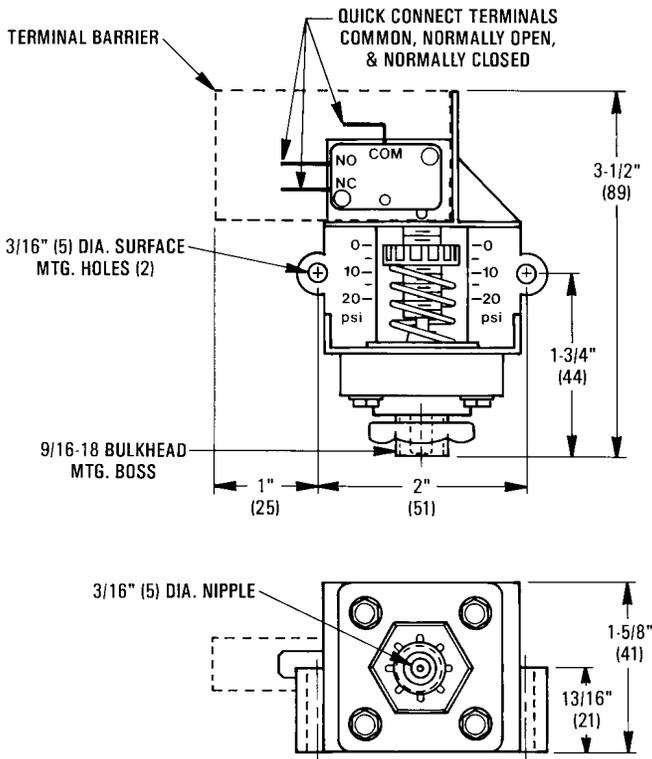
**Specify:** Model Number, accessory number if required  
**Order From:** Local KMC Controls representative or, KMC Controls, Kreuter Manufacturing Co., Inc.

Specifications and design are subject to change without notice.

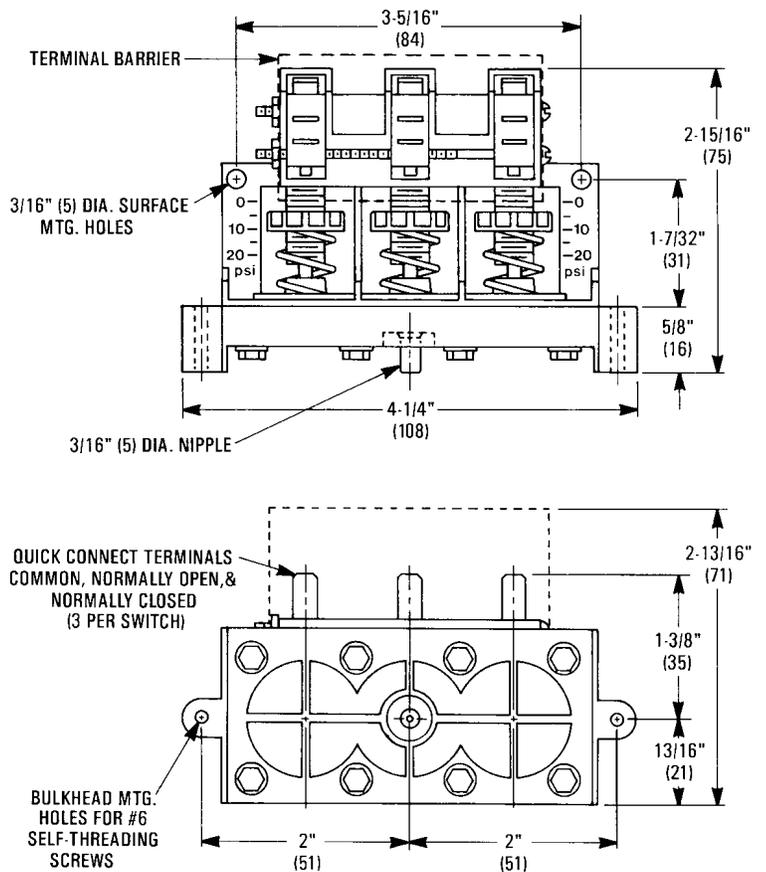
# DIMENSIONS

DIMENSIONS IN INCHES (MM)

**CCE-3001**



**CCE-3003**



## INSTALLATION-CALIBRATION

Model CCE-3001 may be surface mounted with the two 3/16" diameter holes, or bulkhead mounted with the 9/16-18 boss and nut.

Models CCE-3002 and 3003 may be surface mounted with two 3/16" diameter holes or bulkhead mounted with two #6 self-threading screws.

They are not position sensitive.

To calibrate, the setpoint adjustment wheel should be rotated until the lower portion aligns with the desired pressure on the

indication scale. If necessary, a gauge may be installed and the switch calibrated to an actual signal pressure.

Connection to the "C" common and "NO" normally open terminals will BREAK a circuit on a fall in signal pressure. Connection to the "C" and "NC" normally closed terminals will MAKE a circuit on a fall in signal pressure.

Relays should be signaled with clean, dry control air. No attempt should be made to use any other medium.

## MAINTENANCE

No routine maintenance is required. Each component's design and material selection assures dependable long-term reliability and performance. Careful installation will also enhance long-term reliability and performance.