

The CCS NEMA 4, 13, 4X/IP66 self certified switches are designed to provide long life and maintain excellent set-point accuracy under adverse environmental conditions. Rigid, midsize and internally adjustable for convenient field set point adjustment. Vibration and shock resistant. High cycle life. High over-pressure capability. (System and Proof). The bottom electrical conduit prevents the entry of ambient moisture and lessens mounting interference. Suitable for cable gland entry.

Check nameplate on the switch for maximum proof (overpressure) limits. If you have any questions, please contact CCS sales department or CCS authorized sales representatives.

GENERAL:

- a. Observe all Warnings and Cautions contained on the attached Warning Sticker, the Warning Declaration and the CCS catalog.
- b. Follow all applicable governmental or other codes or regulations.
- c. Special conditions for safe use: The integral free lead wires or cable shall be mechanically protected and terminated in a suitable junction or terminal facility.
- d. If the field wiring is terminated in an explosive atmosphere, then a suitability certified termination facility shall be used.

MOUNTING:

- a. Units may be mounted in any position. On a flat surface using (2) mounting holes provided and 1/4" screws at least 1/2" long. The 2-inch pipe mount kit available.

WARNING: RELEASE ALL PRESSURE PRIOR TO INSTALLATION OR REMOVAL OF THIS DEVICE. DO NOT EXCEED NAMEPLATE LISTED PROOF PRESSURES.

- a. Units are supplied with NPT port(s) suitable for connection to NPT pipe nipples or NPT taper threaded pipe. CCS recommends use of either a union or bendable tubing. This will eliminate excessive strain on the housing.
- b. Pipe joint sealing compound is preferred over Teflon tape. However, either method of sealing is acceptable with proper care to avoid introducing sealing material into pressure switch or plumbing.

ELECTRICAL CONNECTIONS:

WARNING: DO NOT MAKE ELECTRICAL CONNECTIONS WHILE ELECTRICAL POWER IS ON. THIS PRODUCT MUST BE INSTALLED BY A QUALIFIED ELECTRICIAN TO AVOID RISK OF ELECTROCUTION.

- a. Remove housing cover to allow access to the terminal block per illustration. The electrical connection is provided with bottom female 1/2-14 NPT thread, suitable for conduit, cable gland or other NPT taper threaded entry. Flexible conduit is recommended. When making wire connections disconnect electrical power. Check for multiple circuits.
- c. Make electrical connections in accordance with the appropriate codes and regulations. Keep as much wire as possible for a service loop to facilitate service, see wiring diagrams.
Note: Wiring Instruction and circuitry coding is provided on instruction label inside housing.
- d. Proper grounding must be accomplished by use of green terminal screw provided.

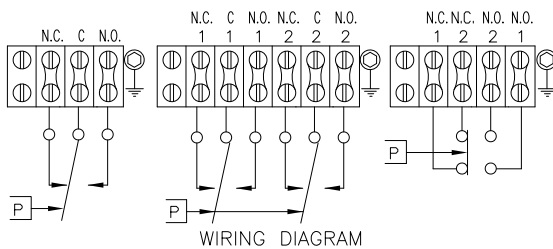
ADJUSTMENT:

Adjustment: (Not applicable if units are factory set)

Pressure settings are externally adjustable.

- a. If the electrical circuit cannot be used for testing disconnect electrical power and use a suitable circuit tester or light box.
- b. Loosen access cover.
Adjust wheel as illustrated. Turn adjustment wheel clockwise to increase settings and turn counterclockwise to decrease settings.
- c. Re-tighten access cover.
- d. Reconnect electrical circuit.

SCHEMATIC AND WIRING CODE



ELECTRICAL CHARACTERISTICS

VOLTS		AMPERES		
		SPDT	DPDT "M"	Dbl Brk "X"
		Res.	Res.	Res.
125 AC	- 50/60 Hz	15	5	15
250 AC	- 50/60 Hz	15	5	15
480 AC	- 50/60 Hz	15	-	15
28 DC	-	-	5	-
125 DC	-	.4	.5	1
250 DC	-	.2	-	.5
*125 AC	- 50/60 Hz	1 max	1 max	-
*30 DC	-	1 max	1 max	-

*Gold Contacts -7008 Suffix

FOR SERVICE OR ORDERING INFORMATION

Consult factory or authorized factory representative. Specify full catalog part number (with optional modification) and factory set-point.

WARRANTY

All CCS products and services are sold subject to: "CCS standard terms and conditions of sale".

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WARNING DECLARATION

If this switch is used to protect equipment or personnel from unsafe pressure or to guard against the hazardous release of contained substances it must be installed and operated in accordance with applicable codes, regulations and standards. This switch must be used in conjunction with system design(s) or procedure(s) necessary to mitigate any hazard resulting from its failure. Conform to installation instructions accompanying this switch. Individuals who ignore this warning may suffer serious or fatal injury and do so at their own risk. Custom Control Sensors is not liable for any misuse, abuse, suitability or adequacy of user's application of the switch. Service by qualified personnel only.