Manual Shutoff Switch

Critical Environment Technologies™

TECHNICAL DRAWING

measurements are in mm

The Manual Shutoff Switch is a factory installed option that is available at the time of order for FCS and DCC Controllers. The emergency stop, push button switch allows a person to manually control equipment in the event of an emergency. It is ideal for applications that require emergency electrical shutdown or ventilation purge. When combined with the Top Mounted Strobe, the device meets B52 code requirements for refrigeration applications.

The mechanism comes with one NC (normally closed) switch block. Normally closed is the reset / ready position. Follow the instructions on the other side of this page for removal, wiring and re-mounting of the switch.

NOTE: The metal guard will not fit over a controller that has a Manual Shutoff Switch installed.

KEY FEATURES

» Manually shut down equipment in an emergency situation
» Manually control the ventilation system
» Safety lock mechanism prevents operating errors
» Finger protection mechanism
» Push-lock, turn-reset feature
» Meets B52 code requirements (when combined with Option -L)
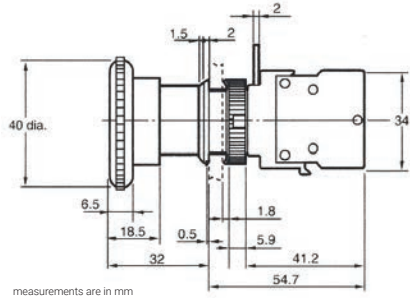» RoHS Compliant

APPLICATIONS

» Refrigeration Compressor Rooms
» Cold Storage Rooms
» Food Processing Plants
» ... and many more

CETCI COMPATIBLE PRODUCTS

FCS Multi Channel System Controllers
DCC Dual Channel Controllers

TECHNICAL SPECIFICATIONS

MECHANICAL

Size	40 mm (1.57") diameter
Actuator Type	Round button, mushroom
Durability **Mechanical** **Electrical**	(setting and resetting once = one operation) 300,000 operations min. 300,000 operations min.
Mode of Operation	1 NC contact, in reset position
Switch Function	ON-OFF
Features	Push-Lock, Turn-Reset

ELECTRICAL

Dielectric Strength	Between terminals of same polarity and between each terminal and ground: 2,500 VAC, 50/60 Hz for 1 min
Circuit	SPST-NC
Current Rating	10A (AC/DC)
Voltage Rating	110VAC, 24VDC

ENVIRONMENTAL

Operating Temperature	-40°C to 70°C (-40°F to 158°F) (with no icing or condensation)
Operating Humidity	35% to 85%

CERTIFICATION

Conforms to: CSA-C22.2 No. 14, UL508
Conforms to: EN60947-5-1, EN60947-5-5
IP65 (oil-resistant)

PRODUCT CODES (OPTION)

OPTION *(Factory installed) Add at the end of the product "Part Number".*

-SW	Manual Shutoff Switch (factory installed)

Manual Shutoff Switch

REMOVING FOR WIRING AND RE-MOUNTING

REMOVAL
- **Make sure the power is turned OFF before removing the switch. Do not touch the terminals or other current-carrying ports while power is being supplied. Electric shock may occur.**
- Remove the white lock plate by gently lifting the tab over the black bar with numbers 1, 2 3 on it. Slide the lock plate out of the red lever opening.
- Use a screwdriver or your thumb to slide the red lever to the unlock position (upwards, toward top of the FCS or DCC).
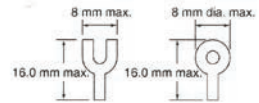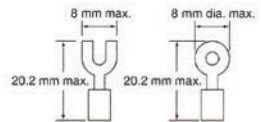- Remove the switch unit, keeping the operation unit in place.
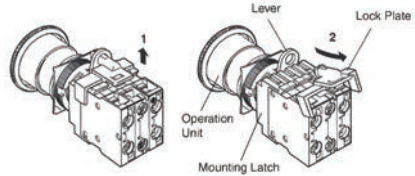
WIRING
- The terminal screws are a Phillips or slotted M3.5 with a square washer.
- The tightening torque is 1.08 to 1.27 N-m.
- Single wires, stranded wires and crimp terminals can be connected to the switch. Applicable wiring materials:
  - Twisted strands: 2 mm^2 max
  - Solid wire: 1.6 mm dia. max
- Loosen the terminal screw from the switch unit until it completely comes off the groove.
- Insert a screwdriver to the opening to push the square washer upwards to temporarily secure it.
- Connect the wires and tighten.
- After wiring the switch, maintain an appropriate clearance and creepage distance.
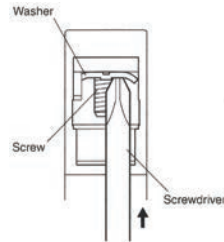

Naked Crimp Terminals

Crimp Terminals with insulating sheaths

RE-MOUNTING
- Follow the removal steps in reverse.
- Slide the switch unit back over the operation unit aligning the arrow on the operation unit with the 3 on the switch unit. (This is easier to do when the mechanism is in the reset position ie. not engaged. To reset, twist in the direction of the arrows on the red cap end of the operation unit.)
- Press the switch unit firmly against the operation unit and slide the red lever to the locked position (downwards, towards bottom of the FCS or DCC) until it clicks.
- Insert the slotted protrusion of the white lock plate into the red lever hole and gently press down over the black bar with the 1, 2 3 until the lock plate clicks into place.
- Make sure the mechanism is in the reset position, ready for use.
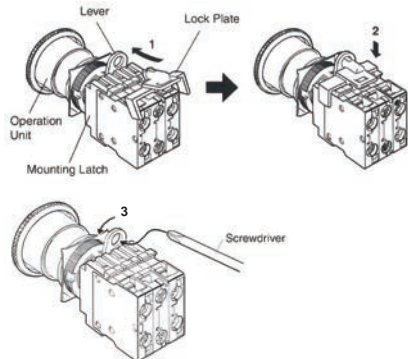
If you require assistance or more information, please contact help@cetci.com

OPTIONS & ACCESSORIES