



ADI 5854-A

**Input Junction Box
5851999
for the
5851008
Emergency
Shutoff System**

INSTALLATION AND OPERATION INSTRUCTIONS

Before Installing or Operating, Read and Comply with These Instructions

**Controls Corporation of America
1501 Harpers Road Virginia Beach, VA 23454
To Order Call 1-800-225-0473 or 757-422-8330 • Fax 757-422-3125
www.concoa.com**

CAUTION

BASIC SAFETY PRECAUTIONS MUST BE FOLLOWED TO REDUCE THE RISK OF FIRE, ELECTRICAL SHOCK OR INJURY.

- While the 5851999 input junction box is dust and moisture resistant, it is NOT water-proof or completely sealed. It should be installed where it will not be subjected to rain or high concentrations of dust. Never pour or spray liquids directly onto the product.
- Install the 5851999 input junction box where the ambient temperature range is between 0° F and 140° F.
- THIS PRODUCT IS NOT INTENDED FOR USE IN EXPLOSIVE ENVIRONMENTS.
- DO NOT INSTALL THIS PRODUCT IN ANY HAZARDOUS ENVIRONMENT.
- If product appears damaged in any way, do not use and request service from CONCOA.

USER RESPONSIBILITY

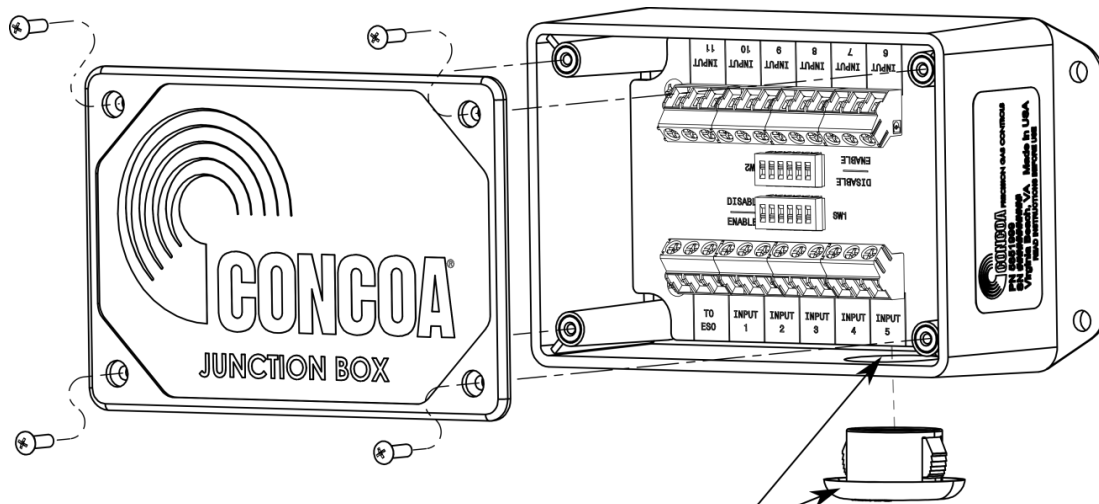
Service to this product should only be performed by CONCOA or an authorized CONCOA agent. Requests for service may be made through CONCOA CUSTOMER SERVICE at 1-800-225-0473. Written requests may be made using CONCOA's FAX number at 1-757-422-3125 or CONCOA's E-MAIL at info@concoa.com

CONCOA accepts no responsibility for damage or injury if this product is modified in any way.

CONCOA assumes/accepts no liability or responsibility for damage to individuals or equipment that may occur when using this product

DESCRIPTION OF PRODUCT

The CONCOA 5851999 input junction box is intended for use with the CONCOA 5851008 Emergency Shutoff System (ESO). One 5851999 input junction box can be added to each of the (6) inputs on the ESO (see Figure 3 and CONCOA instructions document ADI5850/99065850), and each junction box allows up to (11) N.C. (normally closed) dry contact devices such as emergency pushbuttons, oxygen deficiency monitors, and leak detectors to be connected to an ESO input. The CONCOA ESO supplies a +12 VDC signal to the connected devices. If any one of the devices enabled on the junction box is alarmed, the ESO will be triggered.



ø.875" Hole for 3/8" or 1/2" Conduit Fitting. Provided with Removable Pierceable Elastomer Hole Plug.

Figure 1

WALL MOUNTING REQUIREMENTS

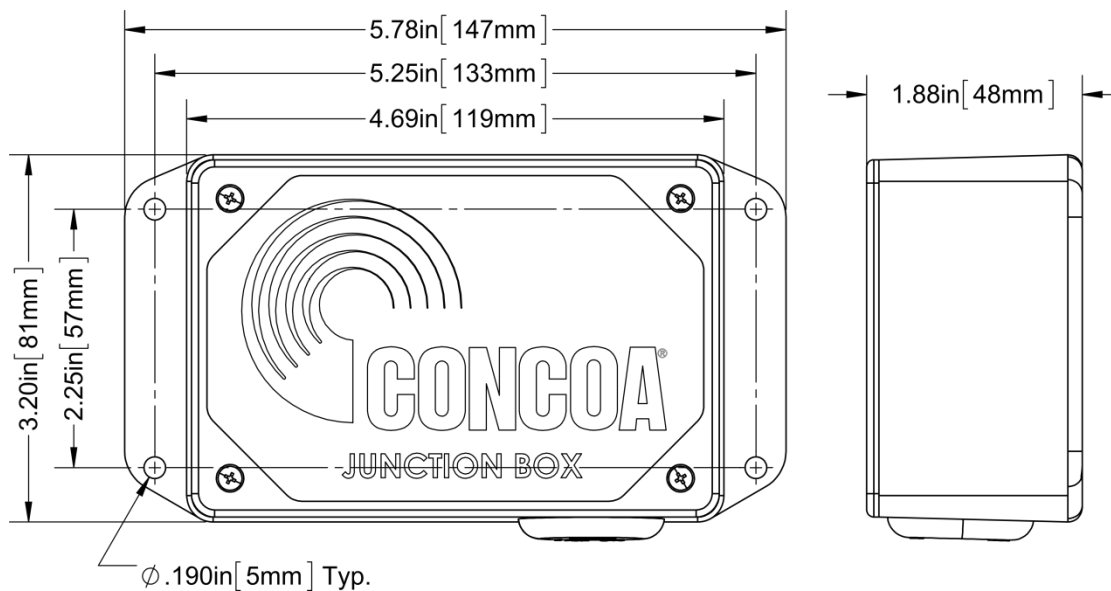


Figure 2

CAUTION

INSTALLATION

Observe the previously mentioned safety precautions before installation.

The 5851999 input junction box is supplied with a water-tight, pierceable elastomer hole plug in the enclosure through which a cable can be passed after piercing the flexible membrane. Optionally, the hole plug can be removed and replaced with a standard $\varnothing 3/8"$ or $\varnothing 1/2"$ conduit fitting (hole size = $\varnothing 7/8"$).

18-22 AWG wire is recommended for connections to the terminal blocks inside the junction box.

Figure 3 shows a hypothetical setup with (6) emergency pushbuttons connected to ESO input #1 and PB1 connected to junction box input 1, PB2 connected to junction box input 2, PB3 connected to junction box input 3, PB4 connected junction box input 9, PB5 connected junction box input 11, and PB6 connected to junction box input 6. This arrangement is also shown in the wiring diagram (Figure 4).

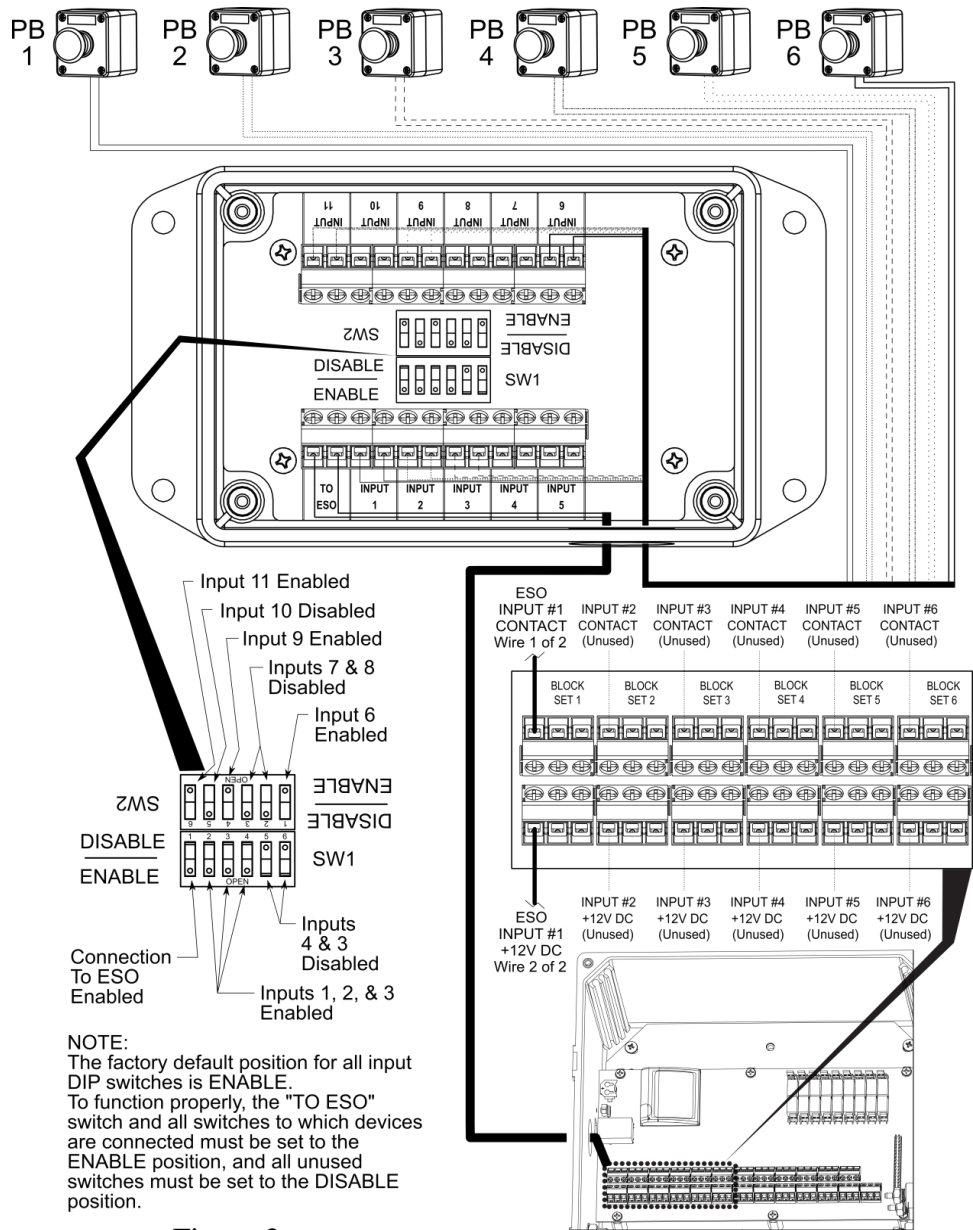


Figure 3

INSIDE THE 5851008 ESO SYSTEM

SAFETY

WIRING DIAGRAM FOR FIGURE 3

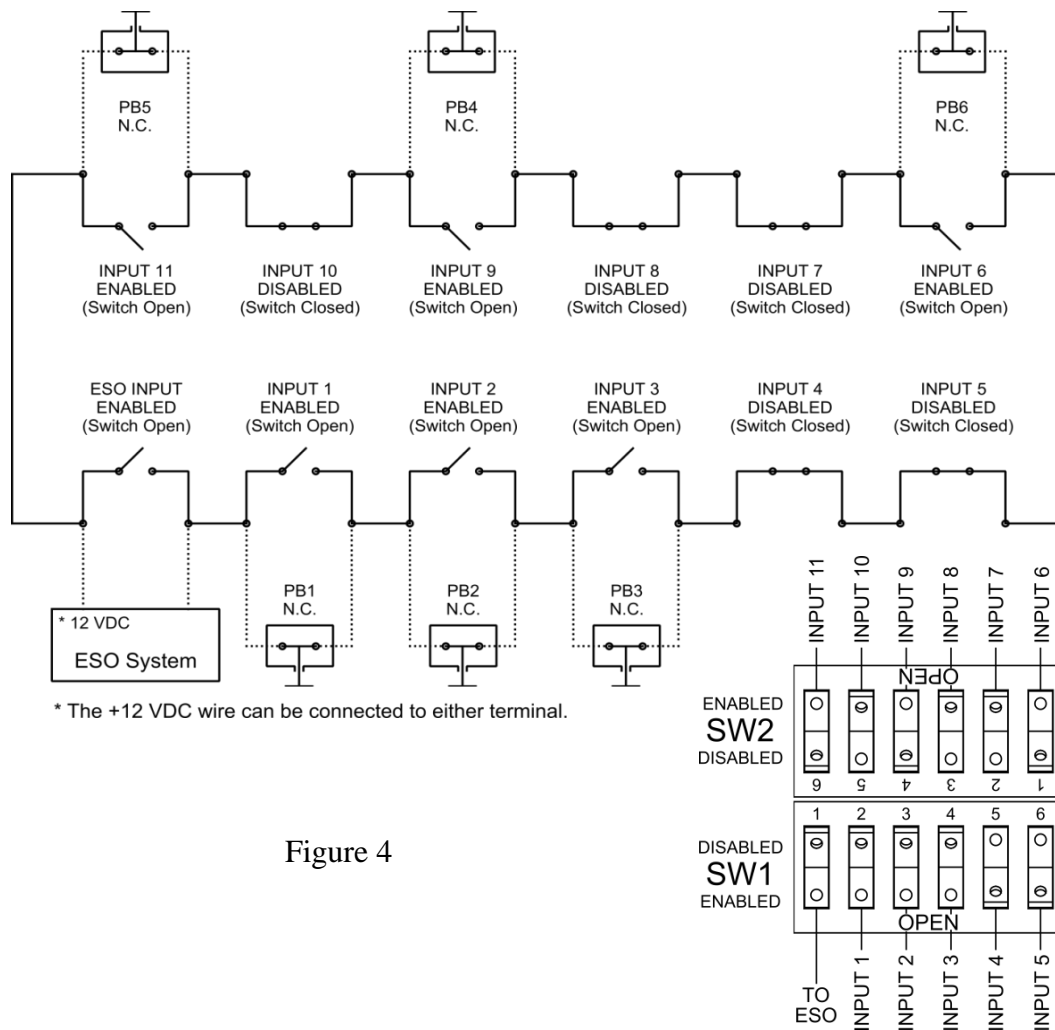


Figure 4

WARNING

N.O. (normally open) devices are not compatible with this junction box and must not be connected to it.

WARNING

The SW1 #1 "TO ESO" toggle switch is the junction box master switch. If it is not set to the ENABLE position, the ESO will not function as required.

WARNING

If the installer connects a device to a junction box input for which the toggle switch is not set to the ENABLE position, that device will not function as required.

WARNING

If the installer sets an unused junction box input switch to the ENABLE position, the system will be perpetually in the alarm condition.

ELECTRICAL SPECIFICATIONS:

Contact Rating: 24 Volts DC @ .5 Amps Max.

Warranty Information

This equipment is sold by CONTROLS CORPORATION OF AMERICA under the warranties set forth in the following paragraphs. Such warranties are extended only with respect to the purchase of this equipment directly from CONTROLS CORPORATION OF AMERICA or its Authorized Distributors as new merchandise and are extended to the first Buyer thereof other than for the purpose of resale.

For a period of one (1) year from the date of original delivery (90 days in corrosive service) to Buyer or to Buyer's order, this equipment is warranted to be free from functional defects in materials and workmanship and to conform to the description of this equipment contained in this manual and any accompanying labels and/or inserts, provided that the same is properly operated under conditions of normal use and that regular periodic maintenance and service is performed or replacements made in accordance with the instructions provided. The foregoing warranties shall not apply if the equipment has been repaired: other than by CONTROLS CORPORATION OF AMERICA or a designated service facility in accordance with written instructions provided by CONTROLS CORPORATION OF AMERICA; or altered by anyone other than CONTROLS CORPORATION OF AMERICA; or if the equipment has been operated under improper conditions or outside published specifications; or if the equipment has been damaged or does not function due to improper installation, improper supply of required utilities, accident, abuse, misuse, natural disaster, insufficient or excessive electrical supply, abnormal mechanical or environmental conditions, or debris or particles in the gas or liquid source of supply.

CONTROLS CORPORATION OF AMERICA's sole and exclusive obligation and Buyer's sole and exclusive remedy under the above warranties is limited to repairing using new or reconditioned parts or replacing, free of charge except for labor if permanently installed for the continuous supply of gas by other than a technician certified by CONTROLS CORPORATION OF AMERICA specifically to do so, at CONTROLS CORPORATION OF AMERICA's option, the equipment or part, which is either (1) reported to its Authorized Distributor from whom purchased, and which if so advised, is returned with a statement of the observed deficiency, and proof of purchase of equipment or part not later than seven (7) days after the expiration date of the applicable warranty, to the nearest designated service facility during normal business hours, transportation charges prepaid, and which upon examination, is found not to comply with the above warranties with return trip transportation charges for the equipment or part paid by Buyer or (2) in the case of designated equipment permanently installed for the continuous supply of gas, reported to an Authorized Service Center with proof of initial installation no later than seven (7) days after the expiration date of the applicable warranty, and which is evaluated for compliance with the above warranties by technician certified by CONTROLS CORPORATION OF AMERICA, and which is determined by CONTROLS CORPORATION OF AMERICA based on said evaluation to be non-compliant.

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