



Flow Line Options

1.877.FLO.LINE



FCAR3™

Loop Powered Analog Relay Manual



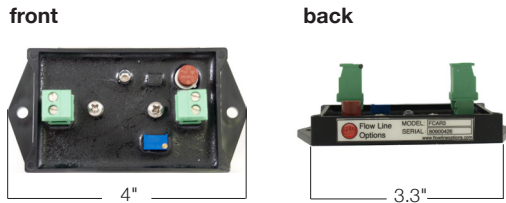
Introduction

Please read carefully! No liability can be accepted for damage caused by improper use or installation

The FCAR3 Loop-Powered Analog Relay is a simple, yet affordable solution for any loop-powered device that requires an alarm trip or control set-point. Available in panel or field mount, the FCAR3 can be used to convert 4-20mA current loop signals to high or low alarm signals. The FCAR3 features a trip set-point that is fully adjustable through the entire 4-20mA scale. In addition, this unit can be placed in a series with other devices in a current loop.

Dimensions cm (mm)

Panel Mount (FCAR3-P)



Field Mount (FCAR3-F)



Specifications

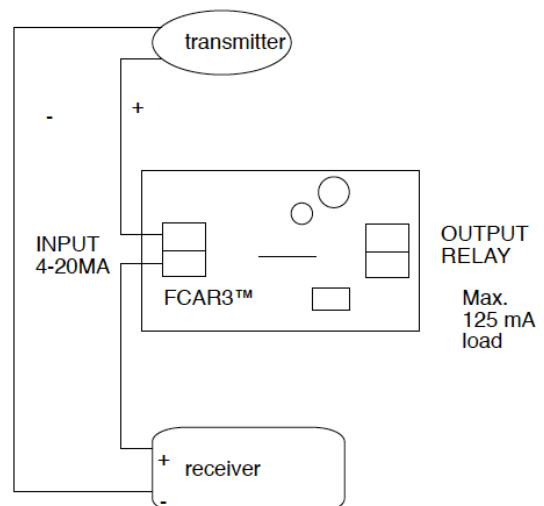


Input	
Analog	4-20 mA current loop input signal
Maximum Voltage Drop	5 VDC
Output	
Form A	Solid state relay (normally open)
Load Current	125 mA continuous, Reduced by 4 mA/°C above 60°C
Peak Current	400 mA for 10 mps
On Resistance	14 Ω (Typical at 125 mA)
Off State Leakage Current	5uA
Electrical	
Operating Temperature	F: -40° to 185° C -40° to 85°
Peak Blocking Voltage	300V
Isolation Voltage, Input to Output	400Vrms
Hysteresis Band (On/Off, Off/On)	150uA

Installation Instructions

With the FCAR3 adjustment potentiometer located in the lower right, the output terminals should be facing the right side. The input terminals are located on the left hand side of the unit. Connecting a loop-powered input is easy as the FCAR3 will monitor the positive or signal wire of the loop. (see wiring example below)

FCAR3 Wiring



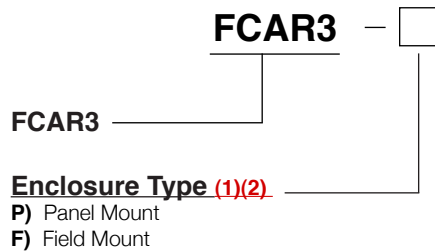
Ordering Information

FLO-CORP MODEL NUMBER BUILDER

For Assistance Call **877.FLO.LINE**

Use the diagram below, working from left to right to construct your Flo-Corp Model Number.
Simply match the category number to the corresponding box number.

Example: FCAR3-P FCAR3, Panel Mount Enclosure



Ordering Notes:

- (1) Select the best configuration based on your requirements
- (2) Panel Mount: Panel/Surface mount applications or DIN
Field Mount: NEMA 4/7; Class I, Div. I (Aluminum Enclosure)

Specifications are subject to change without notice.



Return Policy

Flow Line Options Corporation warrants this product against defects in material or workmanship for the specified period under "Specifications" from the date of shipment from the factory. Flow Line Options Corporation liability under this limited warranty shall not exceed the purchase value, repair, or replacement of the defective unit.

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Warranty Policy

Flow Line Options Corp. warrants to the original purchaser of its products that such products will be free from defects in material and workmanship under normal use and service for a period which is of eighteen months from the date of purchase. This warranty covers only those components of the products which are non-moving and not subject to normal wear. Moreover, products which are modified or altered. Flow Line Options obligation under this warranty is solely and exclusively limited to the repair or replacement, at Flow Line Options decision, of the products (or components thereof) which Flow Line Options' examination proves to its satisfaction to be defective. FLOW LINE OPTIONS SHALL HAVE NO OBLIGATION FOR CONSEQUENTIAL DAMAGES TO PERSONAL OR REAL PROPERTY, OR FOR INJURY TO ANY PERSON. This warranty does not apply to products which have been subject to electrical or chemical damage due to improper use, accident, negligence, abuse or misuse. Abuse shall be assumed when indicated by electrical damage to relays, reed switches or other components. The warranty does not apply to products which are damaged during shipment back to Flow Line Options' factory or designated service center or are returned without the original casing on the products. Moreover, this warranty becomes immediately null and void if anyone other than service personnel authorized by Flow Line Options attempts to repair the defective products. Products which are thought to be defective must be shipped prepaid and insured to Flow Line Options' factory or a designated service center (the identity and address of which will be provided upon request) within 30 days of the discovery of the defect. Such defective products must be accompanied by proof of the date of purchase. Flow Line Options further reserves the right to unilaterally waive this warranty and to dispose of any product returned to Flow Line Options where: a. There is evidence of a potentially hazardous material present with product. b. The product has remained unclaimed at Flow Line Options for longer than 30 days after dutifully requesting disposition of the product. THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE OF THIS WARRANTY. This warranty and the obligations and liabilities of Flow Line Options under it are exclusive and instead of, and the original purchaser hereby waives, all other remedies, warranties, guarantees or liabilities, express or implied. EXCLUDED FROM THIS WARRANTY IS THE IMPLIED WARRANTY OF FITNESS OF THE PRODUCTS FOR A PARTICULAR PURPOSE OR USE AND THE IMPLIED WARRANTY OF MERCHANT ABILITY OF THE PRODUCTS. This warranty may not be extended, altered or varied except by a written instrument signed by a duly-authorized officer of Flow Line Options Corp.

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