FAIRBANKS®

RELAY BOX ACCESSORY FOR FB4000 PREDICTIVE CUTOFF APPLICATION

Fairbanks heavy-duty fiberglass relay box is used in conjunction with the FB4000 Instrument to control filling/batching operations.

RELAY BOX FEATURES

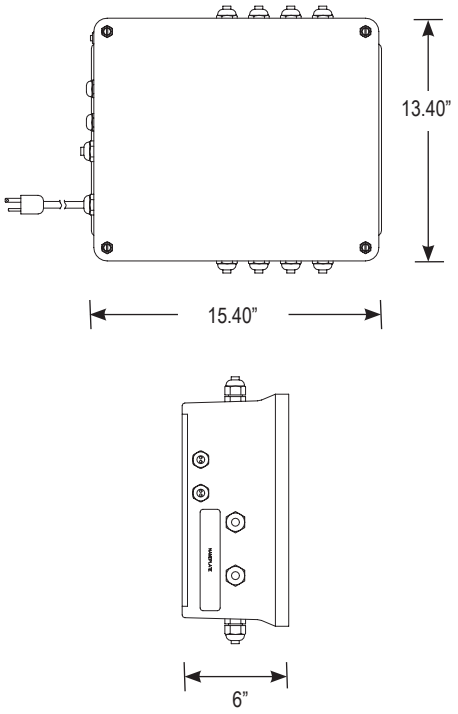
With up to 16 I/O ports, the Fairbanks Relay Box accessory is specifically designed to enhance Predictive Cutoff operations on the Fairbanks FB4000 Instrument. This box has the capability and flexibility to run most automated filling application.

- Use the input modules to add interlocks.
- Add a remote start button.
- Control up to 12 materials at a single rate or six materials with two speeds.
- Connect to the Fairbanks FB4000 Instrument through an existing Ethernet TCP/IP network or directly with patch cable.

SPECIFICATIONS

I/O	4 digital inputs standard, up to 12 additional inputs and outputs
Outputs	Dry-contact or digital
Interface	Ethernet TCP/IP
Power requirements	93-130 VAC; 47-63 Hz
Dimensions	15.4” x 13.4” x 6.0”
Temperature	-4° to 140° F (-20° to 60° C)

DIMENSIONS



I/O MODULE INFORMATION

Details on page 2 of this QuickFacts.

QuickFacts™

Call toll-free for the Fairbanks representative nearest you:
(800) 451-4107

Internet Address: http://www.Fairbanks.com

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I/O MODULES FOR RELAY BOX ACCESSORY

Fairbanks offers three SNAP I/O modules that modify the functionality of the relay box for various processes.

1. SNAP-ODC5R*

4-channel dry contact output, normally open.

SPECIFICATIONS

Field side ratings (each channel)
- Line voltage - range . . . . . 0–100 VDC, 0–130 VAC*
- Current rating . . . . . 0.5 amps switching*
- Surge current . . . . . 0.5 amps*
- Minimum load . . . . . 0 mA
- Output voltage drop . . . . . 0 volts
- Off-state leakage. . . . . 0 mA
- Peak blocking voltage. . . . . 100 VDC / 130 VAC
- Fuse (common to all channels). . . Has four isolated channels, user must provide own fusing
- Channel-to-channel isolation. . . . 300 VAC (1500 V transient)

Logic side ratings
- Pickup voltage. . . . . 4 V @ 5.5 mA
- Dropout voltage. . . . . 1 VDC
- Control resistance. . . . . 220 ohms
- Logic supply voltage . . . . . 5 VDC ± 0.25 VDC
- Logic supply current . . . . . 50 mA maximum

Module ratings
- Channels per module 4
- Turn-on / Turn-off time . . . . . 500 usec / 500 usec
- Isolation (Field side to logic side) . . 1,500 volts (transient)
- Mechanical life . . . . . 200,000,000 cycles
- Approvals . . . . . CE, CSA, RoHS, DFARS

** The current of the dry contact module must not exceed 10 VA power limit under steady state or momentary in-rush conditions. For voltages at or below 20 volts, the current limit is 0.5 amps. For voltages above 20 volts, the maximum allowable current is determined by the following equation: Current Maximum = 10 VA / Voltage. Rating curve is in the data sheet.*

2. SNAP-IDC5-SW

4-channel switch status input, normally open.

SPECIFICATIONS

Field side ratings (each channel)
- Open circuit voltage . . . . . 15 VDC typical (switch open)
- Short circuit current. . . . . 7 milliamps nominal (switch closed)
- Minimum OFF resistance . . . . . >20 K ohms
- Max. allowable ON resistance . . 500 ohms (wire + contact resistance)

Logic side ratings
- Pickup voltage. . . . . <0.5 V max. (switch closed; LED on) @ 2 mA sinking; 2.7 V min. (switch open; LED off); @ 0.4 mA sourcing
- Dropout voltage. . . . . 1 VDC
- Common mode voltage. . . . . 250 V (max operating)
- Power requirements . . . . . 5 VDC (± 0.25) @ 200 mA

Module ratings
- Channels per module 4
- Turn-on / Turn-off time . . . . . 5 msec / 25 msec
- Isolation (Channel-to-channel) . . None
- Isolation (Input-to-output) . . . . . 1500 V AC/DC
- Approvals . . . . . UL, CE, RoHS, DFARS, FM

3. SNAP-OAC5-i

4-channel isolated digital output 12-250 VAC, 5 VDC logic

SPECIFICATIONS

Field side ratings (each channel)
- Line voltage - range . . . . . 12 -250 VAC
- Line voltage - nominal. . . . . 120/240 VAC
- Current rating . . . . . 3 amps per module
- One cycle surge . . . . . 80 amps peak (50/60 Hz)
- Output voltage block. . . . . 1.6 volts max. @ 0.75 amps
- Minimum load current . . . . . 20 mA

Logic side ratings
- Pickup voltage. . . . . 4 V @ 5.5 mA
- Dropout voltage. . . . . 1 VDC
- Control resistance. . . . . 220 ohms
- Logic supply voltage . . . . . 5 VDC ± 0.25 VDC
- Logic supply current . . . . . 50 mA maximum

Module ratings
- Channels per module 4
- Turn-on / Turn-off time . . . . . 0.5 cycle max (zero volts crossover)
- Isolation (Field side to logic side) . . 4,000 volts (transient)
- Approvals . . . . . UL, CE, RoHS, DFARS, FM

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