



# SCM7BP01/SCM7BP02

## Backpanel

### Description

The SCM7BP01 (Figure 3) and SCM7BP02 (Figure 4) are 1 and 2 channel backpanels. Unlike other backpanels available, both the system and field side sides have screw terminal connectors able to accept discrete wire (10-24 AWG). The backpanels can be ordered with standoffs to allow mounting, using a #6 or smaller screw, or with DIN rail mounting hardware.

### System Side - Power

Both backpanels accept 14-35VDC between "V+" and "COM" using a screw terminal (10-24 AWG) block. No reverse supply diodes are provided with this model, but both are fused at 1/4 Amp (01) or 1/2 Amp (02) for module protection.

### Field Side - Signal

On the field side, a temperature sensor is mounted underneath the field side terminal block to provide cold junction compensation for thermocouple modules, and a current-to-voltage conversion resistor (P/N SCM7BXR1) socket location is provided (supplied with SCM7B33 modules).

### Specifications

Operating Temperature	-40°C to +85°C
ATEX Group II, Category 3	-20°C to +40°C
Relative Humidity	90%
Interface Connector:	
Field	high density screw clamp, 10-24 AWG
System	high density screw clamp, 10-24 AWG

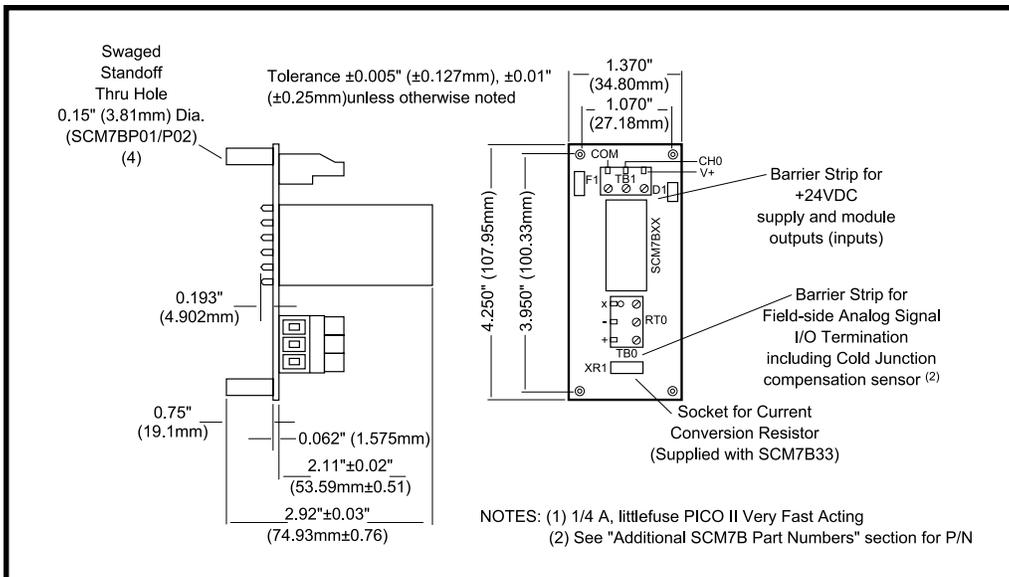


Figure 3: SCM7BP01 Dimensions

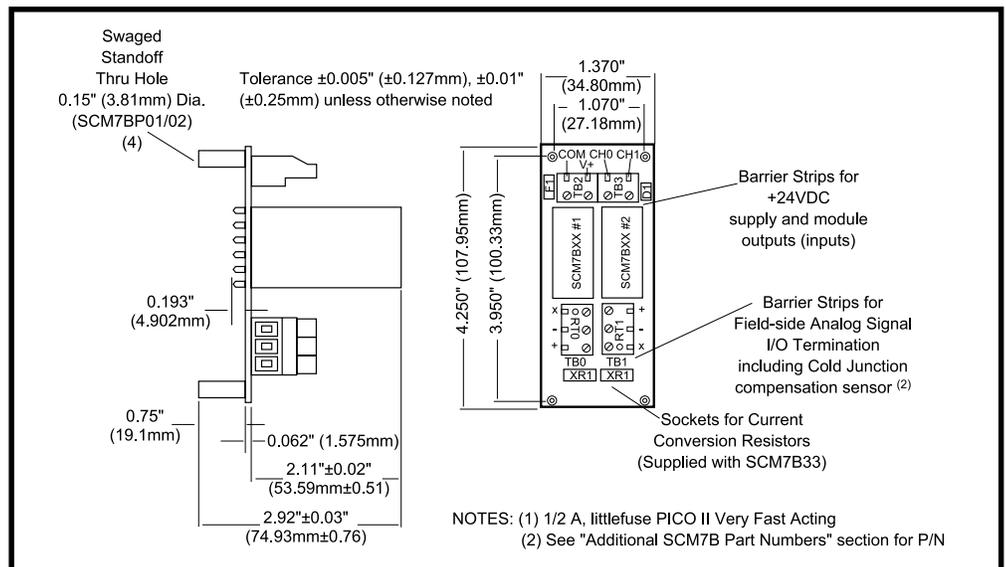


Figure 4: SCM7BP02 Dimensions

# SCM7BP01-DIN/SCM7BP02-DIN



## Panels & DIN Rail Mounting Accessories

### Description

The following Dataforth parts (Figure 5) are required for DIN mounting one SCM7BP01 or SCM7BP02 panel:

Qty	Model	Description
1	SCMXBEFE	Base element with snap foot
2	SCMXSE	Side element

The following Dataforth parts are required for DIN mounting two SCM7BP01-DIN and/or SCM7BP02-DIN panels:

Qty	Model	Description
2	SCMXBEFE	Base element with snap foot
2	SCMXSE	Side element
4	SCMXVS	Connection pins

The following Dataforth parts are required for DIN mounting three or more SCM7BP01-DIN and/or SCM7BP02-DIN panels:

Qty	Model	Description
2	SCMXBEFE	Base element with snap foot
2	SCMXSE	Side element
(# panels) - 2	SCMXBE	Base element without snap foot
(4 x (# panels)) - 4	SCMXVS	Connection pins

The following DIN rail styles are available. Specify the required length in meters (-XX):

SCMXRAIL1-XX	DIN EN 50022-35 x 7.5 (slotted steel)
SCMXRAIL2-XX	DIN EN 50035-G32 (slotted steel)
SCMXRAIL3-XX	DIN EN 50022-35 x 15 (slotted steel)

### Ordering Information

Part Number	Description
SCM7BP01	Standard single channel backpanel with standoffs for mounting.
SCM7BP01-DIN	One SCM7BP01 with DIN rail mounting hardware. Shipped fully assembled. Accepts one SCM7Bxx-xx module.
SCM7BP02	Standard dual channel backpanel with standoffs for mounting.
SCM7BP02-DIN	One SCM7BP02 with DIN rail mounting hardware. Shipped fully assembled. Accepts 2 SCM7Bxx-xx modules.

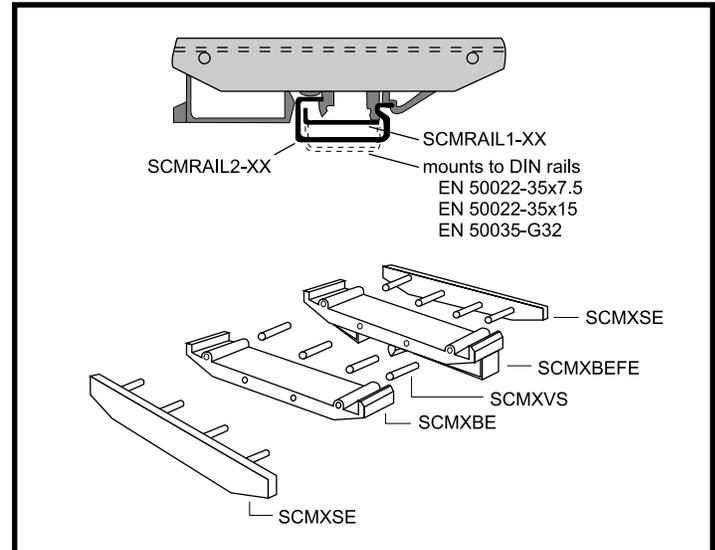


Figure 5: DIN Rail Mounting Elements

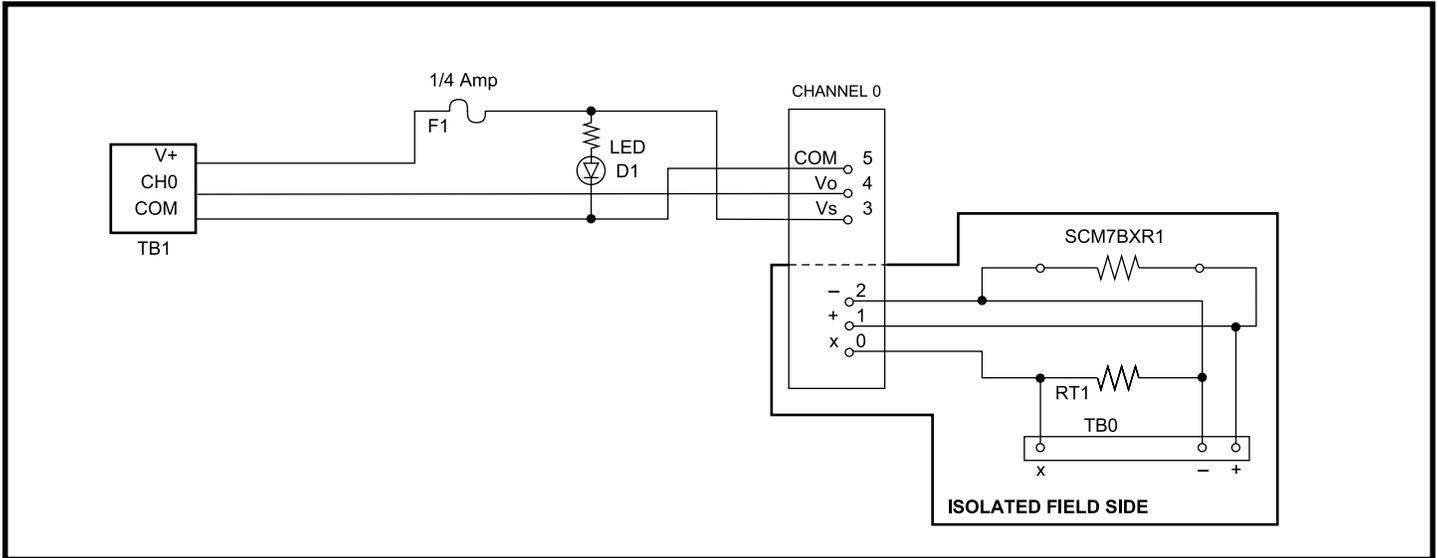


Figure 6: SCM7BP01 (-DIN) Schematic Diagram

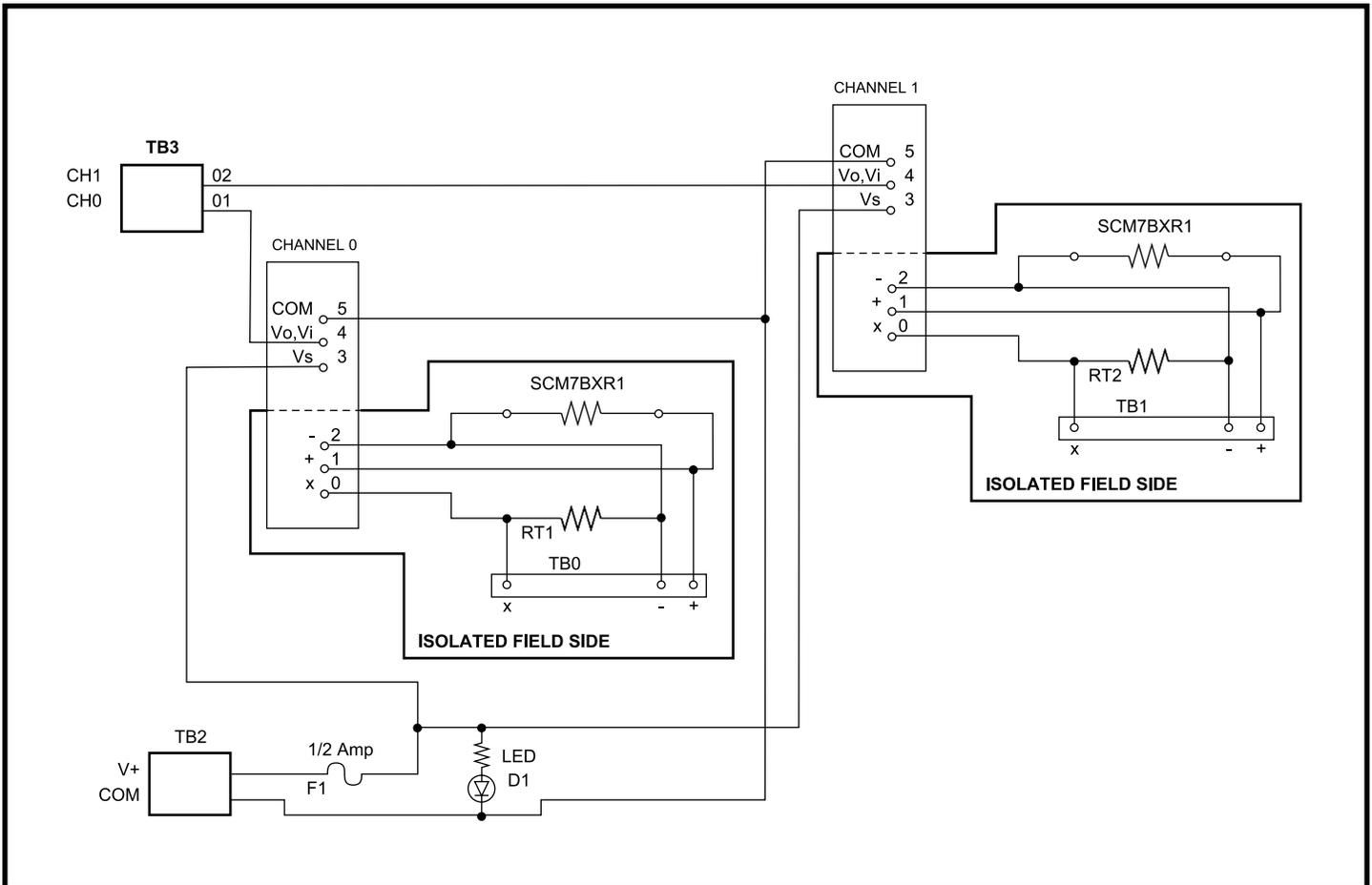


Figure 7: SCM7BP02 (-DIN) Schematic Diagram