

Model A-1018 Sensor Isolator

Function

1. Isolates sensitive PLC, and computer systems from sensor circuits which may have a different ground reference.
2. Isolates the signal generated by Data Industrial's flow sensor, from system input circuitry. Some applications require signal voltage swings which exceed the nominal 8vp-p signal produced by Data Industrial's Series 200 and 4000 sensors.

The only cases where an A-1018 must be used are the following.

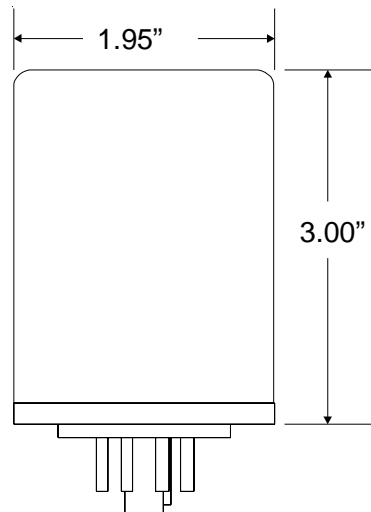
1. Sensor input is from a **Low Frequency Square Wave** Devices such as our Series 4000. Where its true square wave output could remain low for extended periods, eventually causing the output to toggle high due to loss of output control voltage.
2. Any, non-Data Industrial device that would be affected by 100K ohms of parallel resistance.

PRODUCTS

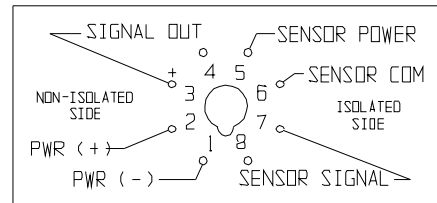
200 ✓
4000 ✓
310
320
600
800
1400
1500
2100
2200
2300
HTT
WSS

Mechanical

The A-1018 installs into a standard Octal Relay Socket (not provided). One example of this type socket would be a POTTER-BRUMFIELD # 27E122.



PIN	DESC	CONNECTIONS
1	COMMON	POWER COMMON & CABLE SHLD
2	POWER IN	+ PWR INPUT / 12 -24 VDC
3	SIGNAL OUT(+)	OPEN COLLECTOR TRANSISTOR OUTPUT (REQUIRES PULL-UP TO LOGIC LEVEL)
4	NOT USED	
5	SENSOR POWER	220 SERIES UNUSED
6	SENSOR COMMON	BLACK & DRAIN
7	SENSOR SIGNAL	RED
8	NOT USED	



Electrical Specs

Power Supply:

12-28VDC @ 65mA

Sensor Power Out (Pin#5 Ref to Pin#8):

14VDC @ 15mA Max.

Sensor Input Threshold Voltage:

$V_{Low} = 2.0VDC$

$V_{High} = 6.0VDC$

Signal Out (Pin#3):

Open Collector Current Sink:

30mA Max .

Maximum applied Open Circuit Voltage:

28VDC

