Senther IN-17B

Differential converter for charge sensor

Features

- Differential signal convertor
- Built in high/low pass filter
- Easy plug and play
- Low noise signal
- Interface with PE sensor
- Gain option available
- Light weight
- Low source resistance compatible

Electrical

Supply voltage	12~20 Vdc
Power requirement	<30 mA
Bias voltage	0 Vdc
Gain option(mV/pC)	1/10
Frequency response(±5%)	1~15KHz
Upper cutoff frequency(-3dB)	30KHz
Source resistance	>50KΩ
Source capacitance	<10nF
Output resistance	<50Ω
Load capacitance	<100pF
Output Max. 25°C	±10V
Gain accuracy	±3%
Gain stability	±1%
Noise refer to output	1mV

Environmental

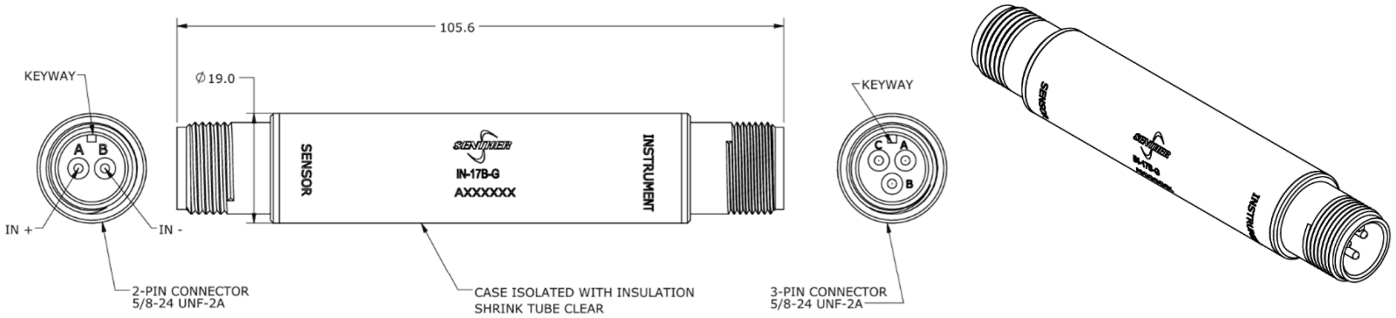
Temperature range	-40 to 85°C
Warm up time	<20s
Shock limit	100g peak
Vibration limit	20g peak
Case	Stainless steel
Sealing	Hermetically sealed

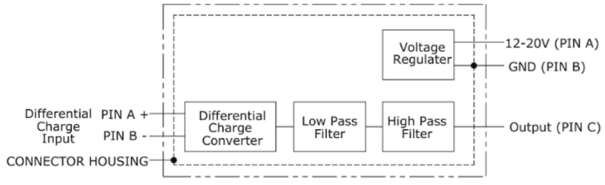
Physical

Weight	<70grams
Input connector	2 Pins
Output connector	3 Pins

Note:

Gain accuracy at 1nF source capacitance and 100Hz ref frequency
Gain stability referred to 25 °C at 100Hz from -40°C to 85°C
Noise refer to input(pC): 0.002x((2.5+Ci)^2+1.2/Ri)^0.5
Ci=Input capacitance(pF)
Ri=Input resistance(MΩ)





Ordering Information

IN-17B-10
-10: 10 mV/pC
-1: 1 mV/pC