

# AAF

## 4-Channel Anti-Aliasing Filter



### Compact 4-channel Anti-Aliasing filter

The BES AAF unit is designed to add Low Pass filtering on signal conditioning stage in data acquisition systems.

All settings, including cut-off frequency and input mode are set by dip switches, which are easily accessible via a hinged transparent panel at the top of the unit. There are also 4 red LED indicators, one for each channel, which are clearly visible through the clear panel. The indicator signals activate in a case of input overloaded, broken cable condition or a short connection in a bridge excitation line.

External connections are made via screw terminals in plugable connectors. The housing is designed for standard DIN-rail attachment.

### Features and Benefits

- Plug-in Connectors
- Wide power supply range
- DIN rail fitting
- Channel error indicator LED's
- Voltage or current output

### Notes:

Power ground is separated from signal ground.

Sensor 10V power line is 200 mA max total for all channels

In current mode: input reference resistance 209 Ohm 0.1%



Unit settings dip switches and indicator LED's

### Specification

#### AAF Anti-Aliasing Filter

Supply Voltage	12...24 V DC
Power Consumption	300 mW
Voltage input range	0 ... 5 V DC
Current input range	0... 20 mA, Rin = 209 Ohm
Voltage output	0...5 V DC
Filter type	5th Order Switched capacitor
Corner Frequencies	1, 2, 5, 10, 20, 50, 100, 200, 500, 1000Hz
Corner selection	Dip switches
Corner Frequency accuracy	+/- 10%
Adjustments	No adjustments
Output Noise	< 0.5 mV in 0.1...1000Hz range
DC Voltage transfer error	< +/- 5mV at 1... 4V input
Linearity Error	<0.01 %FS
Surge Protection	ESD standards compliance: IEC 61000-4-2; level 4 (ESD) > 15 kV (air); > 8 kV (contact) MIL-STD-883; class 3 (human body model) > 4 kV
Operating Temperature	-40°C to +60°C
Dimensions	101mm x 120mm x 22.5mm, ~100g

