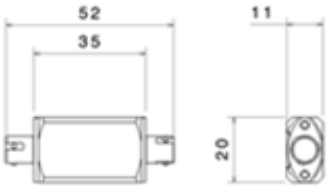
bf1systems In-Line Precision Amplifier – GEN2

bf1systems in-line high precision amplifier GEN 2 is a dedicated amplifier, designed to operate in conjunction with full-bridge strain gauge installations.

It incorporates the same electronics as our GEN 1 amplifier but is housed in a more compact aluminium casing and is fitted with Souriau size 2 connectors.

The amplifier gain and offset voltage can be either selected from the standard range or alternatively a custom amplifier for a particular installation can be supplied. The gain accuracy of the custom amplifiers can be trimmed to 0.1% (please contact bf1systems for more information on custom options).

We can also supply the amplifiers without housings if it is preferred to mount within you own housing.



Specification

Electrical

- 7 - 18 Volt supply range
- Non-ratiometric output, supply voltage changes do not affect the output.
- Full scale output 0.02 to 4.98V
- Non-linearity +/-0.01% FSO
- Hysteresis +/-0.01% FSO
- Thermal zero shift over compensated range 0.002FSO/°C
- Gain and offsets available to requirements
- Excitation output 5V +/-0.1% FSO
- Input connector 8STA00205SA –
  1 = EX+, 2 = SIG-, 3 = SIG+, 4 = SCR,
  5 = EX-
- Output connector 8STA00205SN -
  1 = 12V, 2 = SIG, 3 = GND

Environmental

- Compensated temperature range
  10°C to 125°C
- Operating temperature range
  0°C to 125°C

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