



XAM

- In-line Current Amplifier
- Small dimensions
- Cable Gland or Connector Output

DESCRIPTION

Measurement Specialties, Inc. offers comprehensive measurement solutions including electronic signal conditioning and display units.

In conjunction with its sensors, Measurement Specialties, Inc. offers a wide range of conditioning electronics. The XAM-IC In-line amplifier provides the user with a compact module translating the output from any Wheatstone bridge transducer into a 4 to 20 mA output on 2 wires.

The zero for a 4 mA output can be adjusted by a potentiometer, externally accessible. The gain is usually factory set, but a gain set potentiometer allows individual fine tuning.

The XAM-IC requires 10 Vdc to 36 Vdc power supply and is protected against reverse polarity.

For easy installation, the standard version is supplied with a miniature connector on the sensor's side, but it can also be delivered with cable glands and 1 m cable on each side, or with a second connector.

With its rugged and compact metallic housing, the XAM-IC is suited for on-board applications.

Features

- Current Output 4...20 mA (current loop)
- Power Supply 10 to 36 V
- Suited for Wheatstone Bridge Sensors
- Zero and Gain adjustments by trimmers
- Connector and / or Sealed Cable Output

Applications

- Suited for Wheatstone Bridge Sensors
- For on board sensor installation
- Laboratory and Research

PERFORMANCE SPECIFICATIONS

All values are typical at temperature 20 ±1°C

General Characteristics

| | |
|-----------------------|--|
| Dimensions | Diameter 15mm [.59 in] |
| Material | Aluminum Alloy |
| Connections | Miniature connector and cable gland |
| Weight w/o cable | < 30 g [.066 lb] |
| Operating Temperature | -10° C to 70° C [14 to 158° F] |
| Storage Temperature | -20° C to 80° C [-4 to 176° F] |
| Wiring | Shielded cable to power supply (version CP) or sensor (version PC) |
| | Standard length 2 m (6.5 ft) |

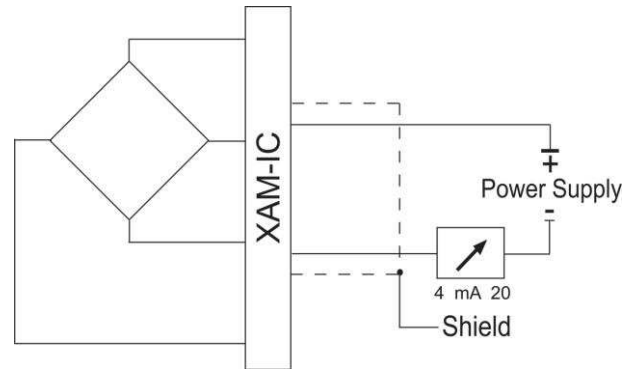
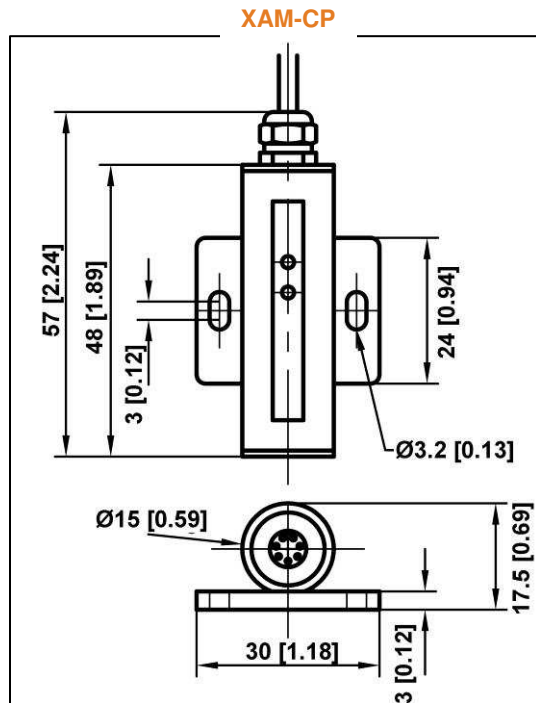
Electrical characteristics

| | |
|-----------------------------|---|
| Power Required (Vin) | 10 to 36 Vdc |
| Output Signal | 4 to 20 mA (2 wires) |
| Sensor Supply Voltage | 2.5 Vdc ± 5 % |
| Sensor output | 4 to 400 mV F.S. |
| Output Drift | 0.035 % F.S./° C typical |
| Input Impedance | 1 GΩ |
| Output Current | 25 mA max |
| Current Consumption | 25 mA max |
| Common Mode Ratio Rejection | >95 dB min |
| Input Protection | Reverse Polarity Protected and Surge Suppressor |

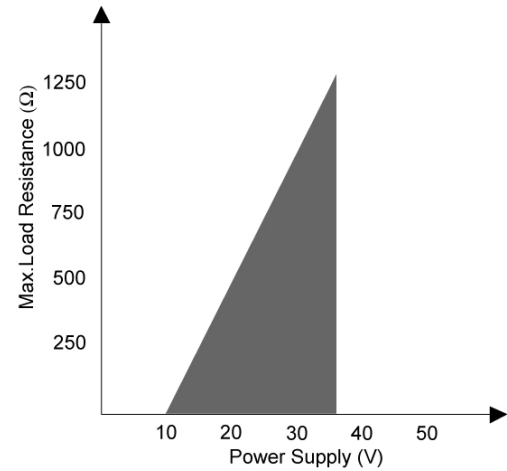
Amplifier Performance

| | |
|---------------------------|----------------------|
| Gain G | 0.4 mA/mV to 4 mA/mV |
| Gain Adjust Potentiometer | ± 10 % |
| Frequency Response (-3dB) | 400 to 4000 Hz |

DIMENSIONS & WIRING SCHEMATIC (IN METRIC AND IMPERIAL)



Operating Zone



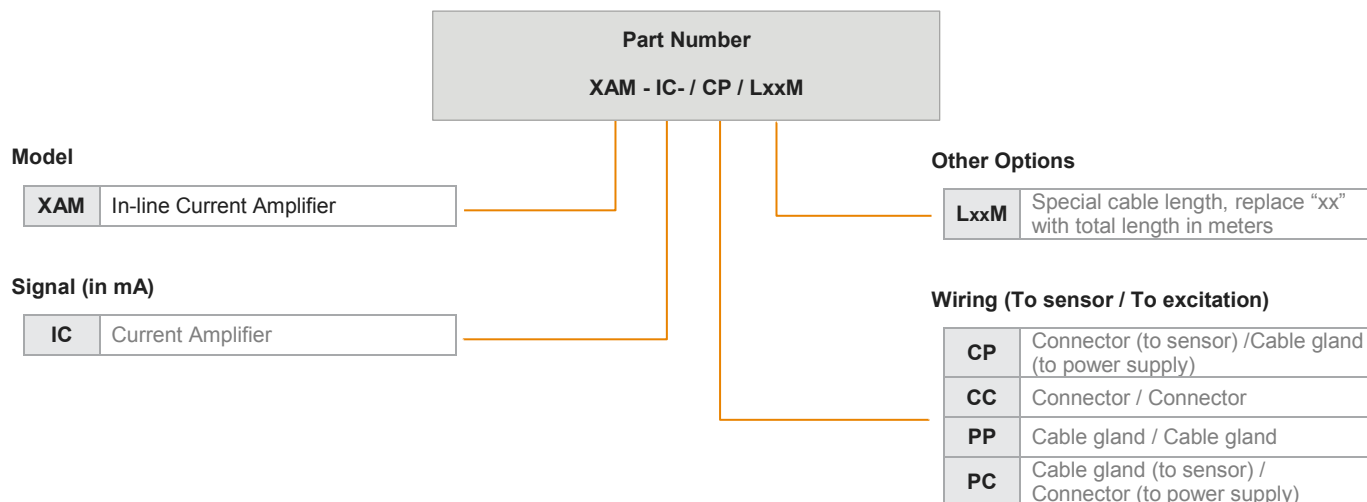
Note:

Cable and interconnection resistances must be added to the load resistance

XAM

In-line Current Amplifier

Ordering Information



株式会社 クローネ

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