XI Low Cost 4~20mA Isolator Series

XI-P Input Powered Isolators





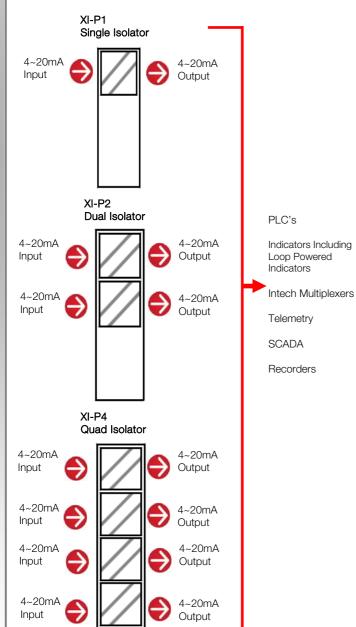
XI-P1 One Isolator

XI-P2 Dual Isolators

XI-P4 Quad Isolators

Features:

- No Power Supply Needed Input Powers Transmitter.
- Ideal for isolating a typical 4~20mA loop.
- Input to Output Isolation 1kV.
- High Accuracy.
- Reverse Polarity Protected.
- Compact DIN Rail Mount Enclosure.
- Available with 1, 2 or 4 Transmitters per enclosure.
- Easy to Install.
- Low Cost.



XI-L Input Powered Isolators







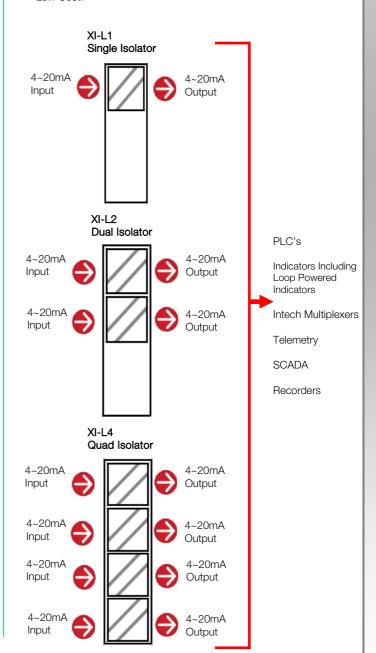
XI-L1 One Isolator

XI-L2 Dual Isolators

XI-L4 Quad Isolators

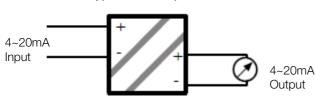
Features:

- Input to Output Isolation 1kV.
- High Accuracy 0.1%.
- Reverse Polarity Protected.
- Compact DIN Rail Mount Enclosure.
- Available with 1, 2 or 4 Transmitters per enclosure.
- Easy to Install.
- Low Cost.



XI - Isolator Series

Typical Hookup XI-P



XI-P Input Powered Isolators

Ordering Information

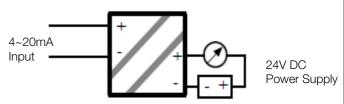
XI-P1 One Unit per Enclosure XI-P2 Two Units per Enclosure XI-P4 Four Units per Enclosure

XI-P Specifications

Note: Specifications unless stated otherwise are based on a XI-P with a 250R load on the output.

| Input | 4~20mA or 0~20mA. Must be inserted in a current loop. |
|-----------------------------|--|
| | Maximum current ≤ 50mA. Output current tracks Input Current. |
| | Minimum XI-P Loop Resistance @ 20mA is 200 Ω (4V) with 0 Ω Output load. |
| | Maximum XI-P Loop Resistance @ 20mA is 800Ω (16V) with 600Ω Output load. |
| Output | 4~20mA or 0~20mA. Output Current tracks Input Current. |
| | Output Load = Input Effective Loop Resistance - 200Ω(4V) |
| | Minimum Output Load = 0Ω at $20\text{mA}(0\text{V})$ |
| | Maximum Output Load = 600Ω at 20 mA(12V) |
| Accuracy | <±0.15% Typical at 250 Ω Output Load. |
| | <+0.1%/100 Ω Typical for Output Load <250 Ω |
| | $<$ -0.1%/100 Ω Typical for Output Load >250 Ω |
| EMC Emissions Compliance | EN 55022-A |
| EMC Immunity Compliance | EN 50082-1 |
| Safety Compliance | EN 60950 |
| Linearity & Repeatability | <±0.1% FSO Typical |
| Ambient Drift | <±0.01%/C FSO Typical |
| Noise Immunity | 125dB CMRR Average (1.0kVdc Limit.) |
| R.F. Immunity | <1% Effect FSO Typical |
| Isolation Test Voltages | -Between Input and Output: 1000VdC for 1min. |
| | -Between the separate XI-P transmitters: 1000Vdc for 1min. |
| Response Time | 100msec Typical. (From 10 to 90% 25msec Typical.) |
| Operating Temperature | 0-70C. |
| Storage Temperature | -20~80C. |
| Operating Humidity | 5~85%RH Max. Non-Condensing. |
| Mounting | 35mm Symmetrical Mounting Rail. |
| Dimensions | L=100, W=22.5, H=100mm. |
| | |

Typical Hookup XI-L



XI-L Input Powered Isolators

Ordering Information

XI-L1 One Unit per EnclosureXI-L2 Two Units per EnclosureXI-L4 Four Units per Enclosure

XI-L Specifications

| Input | 4~20mA |
|-----------------------------|--|
| Input Resistance | 500Ω |
| Output | 2 wire 4~20mA. (Loop Powered) |
| Output Load Resistance | 800Ω @ 24Vdc. (50 Ω /V Above 8Vdc.) |
| Power Supply | 8-33Vdc. |
| Supply Voltage Sensitivity | <±0.005%/V FSO. |
| Maximum Output Current | Limited to <28mA. |
| EMC Emissions Compliance | EN 55022-A |
| EMC Immunity Compliance | EN 50082-1 |
| Safety Compliance | EN 60950 |
| Accurate to | <±0.1% FSO Typical. |
| Linearity &Repeatability | <±0.1% FSO Typical |
| Ambient Drift | <±0.01%/C FSO Typical |
| Noise Immunity | 125dB CMRR Average (1.0kVdc Limit.) |
| R.F. Immunity | <1% Effect FSO Typical |
| Isolation Test Voltages | -Between Input and Output: 1000VdC for 1min. |
| | -Between the separate XI-L transmitters: 1000Vdc for 1min. |
| Response Time | 100msec Typical. (From 10 to 90% 25msec Typi- cal.) |
| Operating Temperature | 0-70C. |
| Storage Temperature | -20~80C. |
| Operating Humidity | 5~85%RH Max. Non-Condensing. |
| Mounting | 35mm Symmetrical Mounting Rail. |
| Dimensions | L=100, W=22.5, H=100mm. |

Product Liability. This information describes our products. It does not constitute guaranteed properties and is not intended to affirm the suitability of a product for a particular application. Due to ongoing research and development, designs, specifications, and documentation are subject to change without notification. Regrettably, omissions and exceptions cannot be completely ruled out. No liability will be accepted for errors, omissions or amendments to this specification. Technical data are always specified by their average values and are based on Standard Calibration Units, unless otherwise specified. Each product is subject to the 'Conditions of Sale'.

Warning: These products are not designed for use in, and should not be used for patient connected applications. In any critical installation an independent fail-safe back-up system must always be implemented.

Quality Assurance Program:

The modern technology and strict procedures of the ISO9001 Quality Assurance Programme applied during design, development, production and final inspection grant long term reliability of the instrument.

This instrument has been designed and built to comply with EMC and Safety Standards requirements.

