

ISO 420 Galvanic Isolator

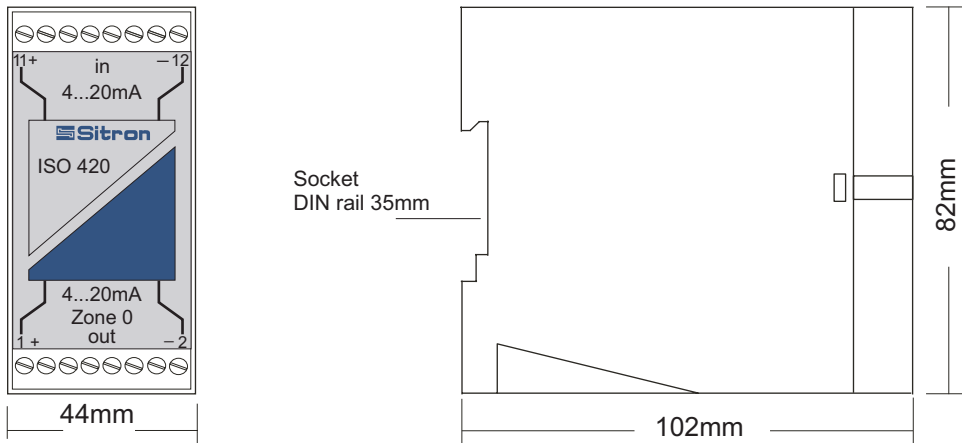
The ISO420 acts as a standard isolator for transmitters with 4 ... 20mA input signal and 4...20mA passively isolated output signal. The unique electromagnetic insulation and high efficiency circuit against signal leakage, provides excellent accuracy and stability in signal insulation.

Characteristics:

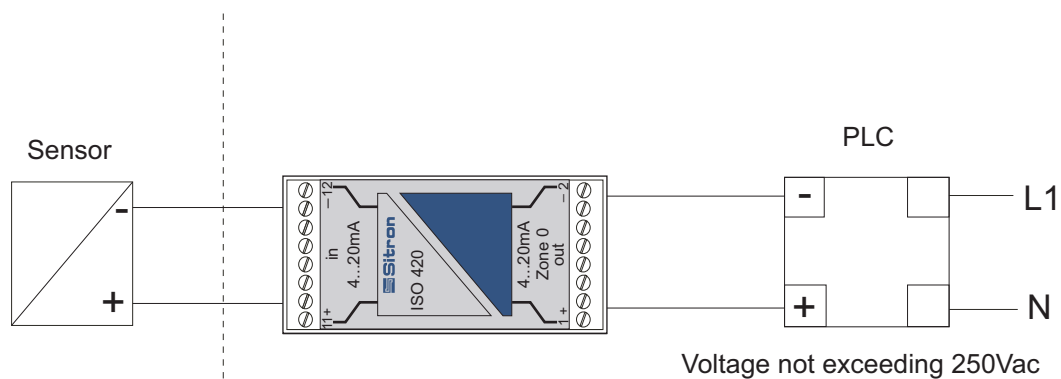
- 2 isolation ports (between input signal and output signal)
- High precision and stability (0.1% F.S)
- High Signal Isolation (3KVDC / 60s)
- Low temperature coefficient (35PPM / ° C)
- Operating Temperature (Range: -25 ° C to 71 ° C)
- High reliability: (MTFB> 500,000 hours)



Dimension



Electrical Connection



Especification

| Electrical Characteristics | | |
|----------------------------|------------------|----------------------------|
| Power | Power | None |
| | Consumption | None |
| | Protection | None |
| Input | Input Signal | 4...20mA |
| | Overload | <50mA |
| | Voltage Drop-out | 3 V (Input = 20mA) |
| Output | Signal output | 4...20mA |
| | Load Capacity | <300 ohms (Output = 20mA) |
| | Load Regulation | <0.05% meas.val. /100 ohms |

| Transmission Characteristics | |
|------------------------------|---------------------------------|
| Zero Offset | 0.1% F.S. |
| Gain error | 0.1% F.S. |
| Temp.Coefficient. | 0.0035% F.S./°C (-25°C ~ +71°C) |

| Isolation Specification | |
|-------------------------|---|
| Electrical Isolation | 2 port isolation (between signal input and signal output) |
| Isolation Voltage | 3K VDC (tested for 1 minute and leakage current <1mA) |
| Insulation Resistance | 100M ohms, 500VDC (between input and output) |

| Other Characteristics | |
|---|---------------|
| Output Circuit | -- |
| Class Protection (Explosive atmosphere) | -- |
| Fixation | DIN rail 35mm |
| Ambient Temperature | -25...+71°C |
| Storage Temperature | -20...90°C |
| Class Protection | IP40 |
| Humidity | 95% |