

INTRODUCTION

Loop isolators provide signal protection by electrically isolating the input signal from the output.

TxIsoLoop-1 and **TxIsoLoop-2** simplify your application and avoid the undesirable ground loops by providing single and dual loop galvanic isolation. The 0/4-20 mA input is measured and an identical isolated signal is reproduced at the output. Power is drawn from the 0(4)-20 mA input loop, thus no auxiliary power or an external power supply is need.



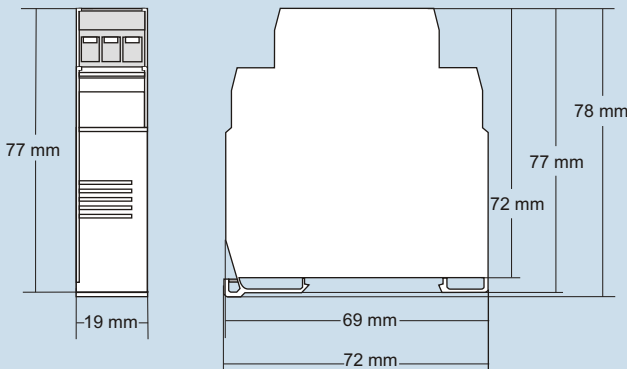
FEATURES

- Input/output galvanic isolation.
- Models for 1 or 2 channels.
- No need for power supply.
- Powered from the input loop.
- Calibration free. High accuracy.

SPECIFICATIONS

- Input Signal (INPUT): 0 to 20 mA; 4 to 20 mA (check minimum current for proper operation).
- Maximum Input voltage (Vin max.): 32 Vdc.
- Voltage Drop (Vdrop): < 3 Vdc.
- Output Signal (OUTPUT): 0(4) to 20 mA.
- Max. Load (RL): 1450 R.
- Accuracy: 0.1 % FS @ 0 a 60 °C / RL= 250 R;
0.25 % FS @ -20 a 75 °C / RL= 250 R.
- Operating current: > 0.1 mA.
- Overload: < 40 mA; < 32 Vdc.
- Response time: 2 ms @ RL= 250 R.
- Isolation: 3000 Vac / 10 s;
240 Vac continuous.
- EMC: EN 61326-1.
- Ambient temperature range: -20 to + 75 °C.
- Humidity: 20 to 90 % RH.
- Protection: IP40.
- Wire gauge for connections: 0.14 to 1.5 mm².
- Recommended torque: 0.8 Nm.
- Terminal blocks injected in Polyamide.

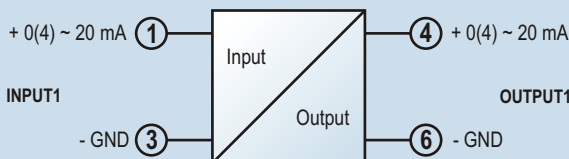
DIMENSIONS



LOOP-POWERED ISOLATORS

BLOCK DIAGRAMS

CHANNEL 1



CHANNEL 2

