F500-IG20 e F500-IG21

Main Characteristics

- high insulation voltage – 3000 Vcc/60s
- insulation resistance – 100 M .../500 Vcc
- high precision – 0,3 % F.E.
- high linearity – 0,1 % F.E.
- low temperature coeficiente – 35 PPM/ºC
- MTBF > 500.000 hours

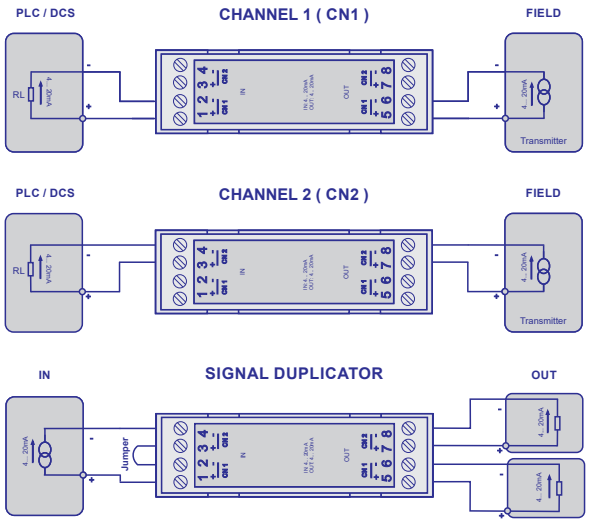
Technical Data

Supply 6....32 Vcc.
Exit sign 4 ... 20 mA (2 wires).
Output resolution 2 mA.
RTD excitation current < 200 mA.
RTD maximum wire resistance 20 .... per wire.
TC total input precision 0,2% fs +- 10 mA.
Cold junction precision +- 0,5 ºC.
Zero offset 0,1% F.E.
Gain error 0,1% F.E.
Degree of protection IP 40.
Operating Temperature -25 to 85 ºC.
Storage temperature -40 to 105 ºC.
Mechanical connection DIN rail 35mm.

General Description

The F500-IG20 and F500-IG21 signal isolators are ideal for operating current transmitters from 4 to 20mA and providing a galvanically isolating output for the control equipment, ensuring the signal precision and security. The galvanic isolation eliminates ground loops, noise and blocks transients, improving the system stability. They can be used in the application of the circuit output loop. This way, they can supply the two instrument wires of the system and receive the 4 ... 20 mA signal that can isolate the output to the PLC or DCS and even the indication systems such as datalogger and indicators without independent power supply.

Electrical Connection



IMPORTANT: for the correct operation in duplicator mode, both outputs must be connected.

Dimensional