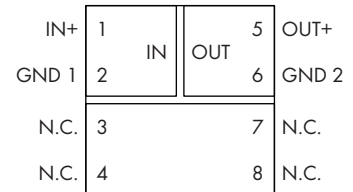
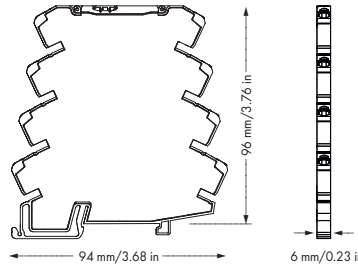
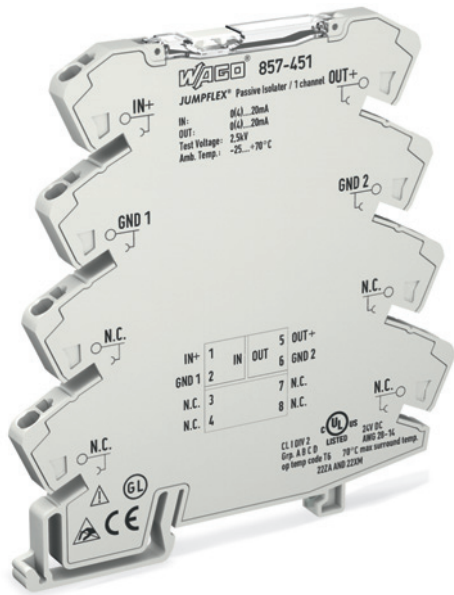


JUMPFLEX® Signal Conditioners

Passive Isolator, 1 Channel



Short description:

The 1-channel passive isolator filters and electrically isolates 0(4)–20 mA analog standard signals, while drawing power for signal transmission from the input circuit. The connected sensor supplies the passive isolator with the required power, while powering the connected load.

Characteristics:

- No additional supply voltage required
- Safe 3-way isolation with 2.5kV test voltage to EN 61140

| Technical Data | |
|-------------------------------------|---|
| Input: | |
| Input signal | 0(4) ... 20 mA |
| Response current | < 200 μA |
| Voltage drop input | < 2.0 V at 20 mA (output) |
| Max. input voltage | < 20 V |
| Max. input signal | 40mA |
| Output: | |
| Output signal | 0(4) ... 20 mA |
| Load impedance | ≤ 600 Ω (Temperature range restrictions may occur) |
| General specifications: | |
| Max. operating frequency | 100 Hz |
| Response time (T _{10/90}) | < 3.5 ms |
| Transmission error | ≤ 0.1 % of the full scale value |
| Load error | ≤ 0.05 % of upper range value per 100 Ω load |
| Temperature coefficient | ≤ 0.01 % /K |

| Description | Item No. | Pack. Unit |
|--|---------------------------------------|------------|
| JUMPFLEX® Signal Conditioner, for DIN 35 rail | 857-451 | 1 |
| Passive Isolator, 1 Channel | | |
| Technical Data | | |
| Environmental requirements: | | |
| Ambient operating temperature | -25 °C ... +70 °C | |
| Storage temperature | -40 °C ... +85 °C | |
| Connection and type of mounting: | | |
| Wire connection | Push-in CAGE CLAMP® | |
| Cross sections | solid: | |
| | 0.08 mm² ... 2.5 mm² / AWG 28 ... 14 | |
| | fine-stranded: | |
| | 0.34 mm² ... 2.5 mm² / AWG 22 ... 14 | |
| Strip lengths | 9 ... 10 mm / 0.35 ... 0.39 in | |
| Dimensions and weight: | | |
| Dimensions (mm) W x H x L | 6 x 96 x 94 | |
| | Height from upper-edge of DIN 35 rail | |
| Weight | 33.8 g | |
| Standards and approvals: | | |
| Conformity marking | CE | |
| UL 508 | | |
| ANSI/ISA 12.12.01 | Class I, Div. 2, Grp. ABCD, T4 | |
| Shipbuilding | GL, PRS, NKK, DNV, BV | |
| EMC immunity of interference | EN 61000-6-2 | |
| EMC emission of interference | EN 61000-6-4 | |
| Accessories | see pages 226 ... 236 | |