

2-Channel Analog Input Module ±10 V/0-10 V
single-ended (S.E.)

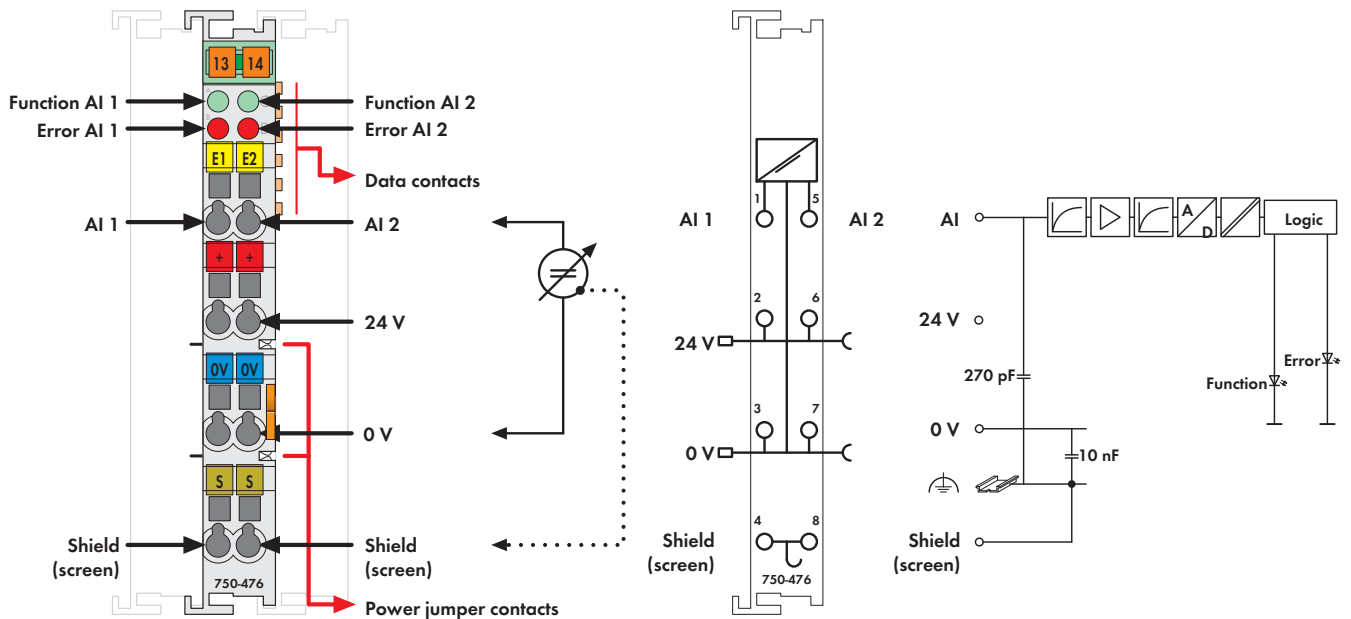


Fig. Series 750 / Technical data see page 28 / Delivery without Mini WSB marker
Series 750 / 753 marking see pages 16 ... 17 / 18 ... 19

The analog input module receives signals with the standardized values 0-10 V or ± 10 V.

The shield (screen) is directly connected to the DIN rail.

The input signal is electrically isolated and will be transmitted with a resolution of 16 bits.

The internal system voltage supply is used for the power supply of the module.

The input channels of a module have one common ground potential.

The 24 V supply is derived from the power jumper contacts.

| Description | Item no. | Pack. unit |
|--|---------------------------------------|------------|
| 2AI ±10V DC 16 Bit S.E. | 750-476 | 1 |
| 2AI 0-10V DC 16 Bit S.E. | 750-478 | 1 |
| 2AI ±10V DC 16Bit S.E. (without connector) | 753-476 | 1 |
| 2AI 0-10V DC 16Bit S.E. (without connector) | 753-478 | 1 |
| Accessories | | |
| 753 Series connector | 753-110 | 25 |
| Coding elements | 753-150 | 100 |
| Miniature WSB quick marking system, plain | 248-501 | 5 |
| Miniature WSB quick marking system, with marking | see pages 256 ... 257 | |
| Approvals | | |
| Series 750 and 753 | | |
| Conformity marking | CE | |
| UL 508 | | |
| ANSI/ISA 12.12.01 | Class I, Div. 2, Grp. ABCD, T4 | |
| Series 750 | | |
| EN 60079-15 | I M2 / II 3 GD Ex nA IIC T4 | |
| Marine applications | BR-Ex nA II T4 | |
| | see "Approvals Overview" in section 1 | |

| Technical Data | |
|--|--|
| No. of inputs | 2 |
| Voltage supply | via system voltage DC/DC |
| Current consumption (internal) | 75 mA |
| Input voltage (max.) | 24 V |
| Signal voltage | ± 10 V (750-476, 753-476) 0 V ... 10 V (750-478, 753-478) |
| Internal resistance | 130 kΩ |
| Resolution | 15 bits + sign bit |
| Conversion time (typ.) | 80 ms |
| Input filter | 50 Hz |
| Noise rejection at sampling frequency | < -100 dB |
| Noise rejection above sampling frequency | < -40 dB |
| Measuring error (25 °C) | ≤ ± 0.1 % of the full scale value |
| Temperature coefficient | < ± 0.01 % / K of the full scale value |
| Isolation | 500 V system/supply |
| Bit width | 2 x 16 bits data 2 x 8 bits control/status (optional) |
| Wire connection | CAGE CLAMP® |
| Cross sections | 0.08 mm² ... 2.5 mm² / AWG 28 ... 14 |
| Stripped lengths (750 / 753 Series) | 8 ... 9 mm / 0.33 in 9 ... 10 mm / 0.37 in |
| Width | 12 mm |
| Weight | 54.5 g |
| EMC CE-Immunity to interference | acc. to EN 50082-2 (1996) |
| EMC CE-Emission of interference | acc. to EN 50081-1 (1993) |
| EMC marine applications - Immunity to interference | acc. to Germanischer Lloyd (2003) |
| EMC marine applications - Emission of interference | acc. to Germanischer Lloyd (2003) |