

2-Channel Digital Input Module 120 V AC

2- to 4-conductor connection; high-side switching

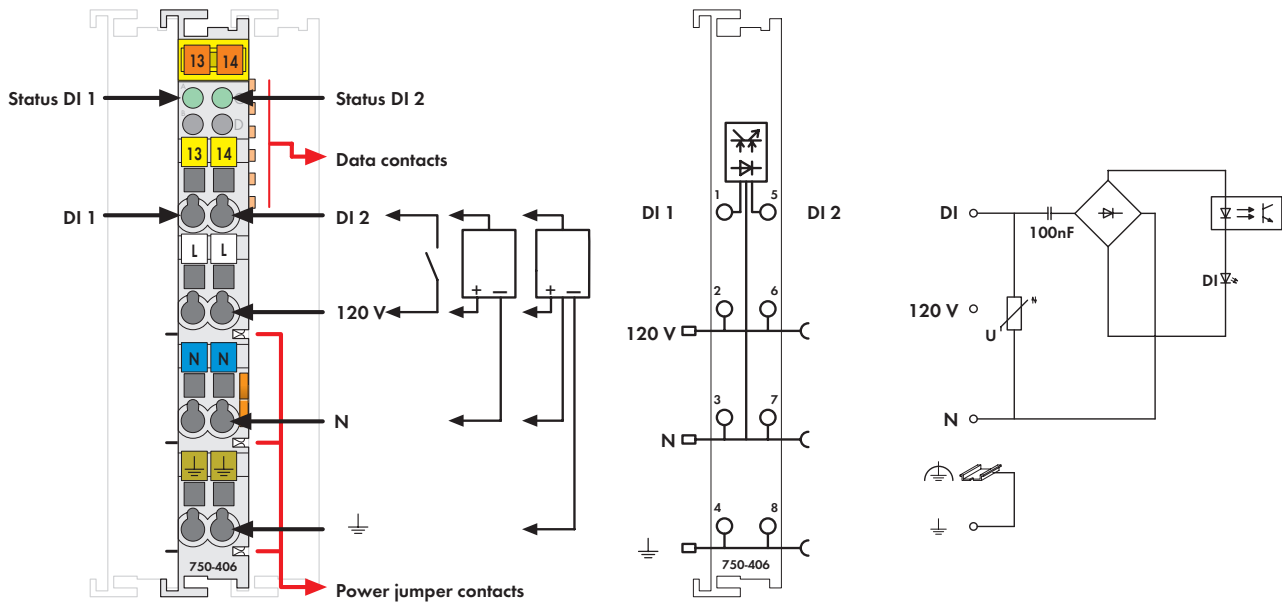


Fig. 750 Series/Technical data see page 24/Delivered without miniature WSB markers
750/753 Series marking see pages 10 ... 11 / 12 ... 13

The digital input module receives control signals from digital field devices (sensors, etc.).

The module is a 2-channel, 4-conductor device and sensors with a ground (earth) wire may be directly connected to the module.

An optocoupler is used for electrical isolation between the bus and the field side.

Notice:

An additional supply module must be added for operation with 120VAC.

| Description | Item No. | Pack. Unit |
|---|--|------------------|
| 2DI 120V AC | 750-406 | 10 ¹⁾ |
| 2DI 120V AC (without connector) | 753-406 | 1 |
| ¹⁾ Also available individually | | |
| Accessories | Item No. | Pack. Unit |
| 753 Series Connectors | 753-110 | 25 |
| Coding elements | 753-150 | 100 |
| Miniature WSB Quick marking system | | |
| plain | 248-501 | 5 |
| with marking | see pages 352 ... 353 | |
| Approvals | Also see "Approvals Overview" in Section 1 | |
| Conformity marking | CE | |
| Shipbuilding | ABS, BV, DNV, GL, KR, LR*, NKK*, PRS*, RINA* *753 Series, pending | |
| UL 508 | | |
| ANSI/ISA 12.12.01 | Class I, Div. 2, Grp. ABCD, T4 | |
| EN 60079-0, -15 | I M2 / II 3 GD Ex nA IIC T4 | |
| EN 61241-0, -1 | | |

| Technical Data | |
|------------------------------------|---|
| Number of inputs | 2 |
| Current consumption (internal) | 2 mA |
| Voltage via power jumper contacts | 230 V AC (-1.5 % ... +20 %); (± 20 % 1.5 s) |
| Signal voltage (0) | 0 V ... 20 V AC |
| Signal voltage (1) | 79 V AC ... 1.1 V _N |
| Input filter | 10 ms |
| Input current (typ.) | 4.5 mA |
| Input frequency | f (nominal) ± 10 % 50 Hz ± 10 % 60 Hz ± 10 % |
| Isolation | 1.5 kV eff. (field/system)*; * 2.5 kV rated surge voltage; Overvoltage category III |
| Internal bit width | 2 bits |
| Wire connection | CAGE CLAMP® |
| Cross sections | 0.08 mm ² ... 2.5 mm ² / AWG 28 ... 14 |
| Stripped lengths, 750/753 Series | 8 ... 9 mm / 0.33 in 9 ... 10 mm / 0.37 in |
| Width | 12 mm |
| Weight | 37.1 g |
| EMC: CE - immunity to interference | acc. to EN 61000-6-2 (2005) |
| EMC: CE - emission of interference | acc. to EN 61000-6-4 (2007) |
| EMC: marine applications | |
| - immunity to interference | acc. to Germanischer Lloyd (2003) |
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