

## 2-Channel Digital Input Module 24 V DC

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

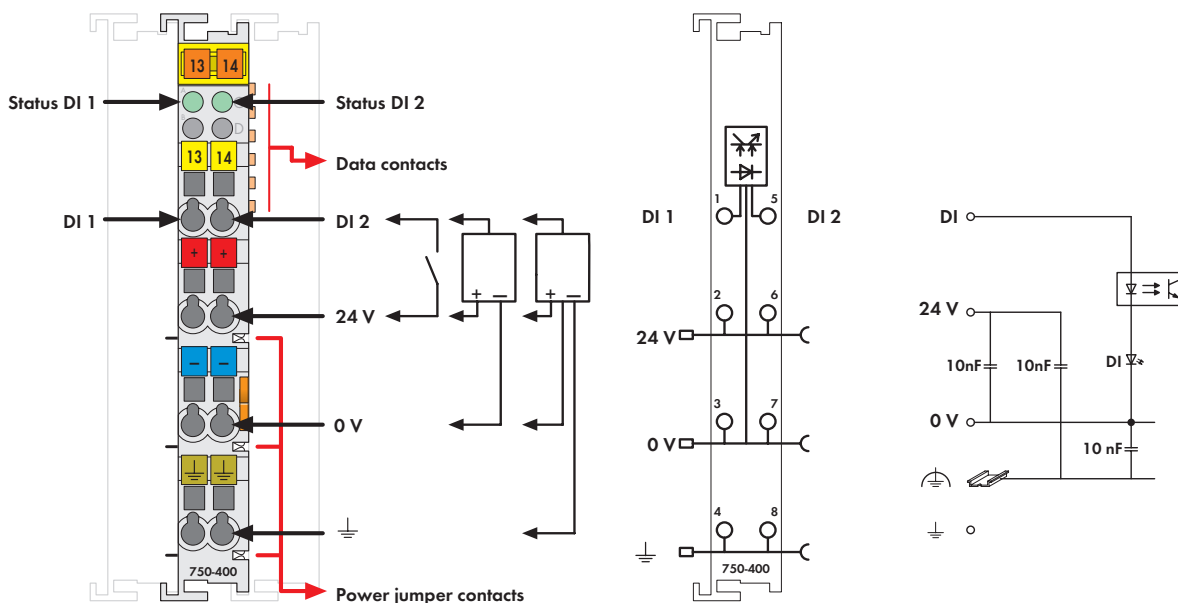






Fig. 750 Series/Technical data see page 24/Delivered without miniature WSB markers  
750/753 Series marking see pages 10 ... 11 / 12 ... 13

The digital input modules receive the control signal 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.

Each input module has a noise-rejection filter. This filter is available with different time constants.

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

| Description   | Item No.   | Pack. Unit       |
|---|--|------------------|
| 2DI 24V DC 3.0ms  | 750-400  | 10 <sup>1)</sup> |
| 2DI 24V DC 3.0ms<br>(Operating temperature -20 °C ... +60 °C)   | 750-400/025-000  | 1                |
| 2DI 24V DC 0.2ms  | 750-401  | 10 <sup>1)</sup> |
| 2DI 24V DC 3.0ms (without connector)  | 753-400  | 1                |
| 2DI 24V DC 0.2ms (without connector)  | 753-401  | 1                |
| 1) Also available individually  |  |                  |
| Accessories   | Item No.   | Pack. Unit       |
|  753 Series Connectors | 753-110  | 25               |
|  Coding elements       | 753-150  | 100              |
| <b>Miniature WSB Quick marking system</b>   |  |                  |
|  plain                 | 248-501  | 5                |
|  with marking          | see pages 352 ... 353  |                  |
| Approvals   | Also see "Approvals Overview" in Section 1                           |                  |
| Conformity marking  | CE   |                  |
| Shipbuilding (versions upon request)  | ABS, BV, DNV, GL, KR, LR*, NKK*, PRS*, RINA*<br>*753 Series, pending |                  |
| UL 508  |  |                  |
| ANSI/ISA 12.12.01   | Class I, Div. 2, Grp. ABCD, T4                                       | 75x-400, -401    |
| EN 60079-0, -15   | I M2 / II 3 GD Ex nA IIC T4  | 75x-400, -401    |
| EN 61241-0, -1  |  |                  |

| Technical Data                     |  |
|------------------------------------|--|
| Number of inputs                   | 2  |
| Current consumption (internal)     | 3.7 mA   |
| Voltage via power jumper contacts  | 24 V DC (-25 % ... +30 %)                                    |
| Signal voltage (0)                 | -3 V ... +5 V DC   |
| Signal voltage (1)                 | 15 V ... 30 V DC   |
| Input filter                       | 3.0 ms (750-400 / 753-400)<br>0.2 ms (750-401 / 753-401)     |
| Input current (typ.)               | 4.5 mA   |
| Isolation                          | 500 V system/supply  |
| Internal bit width                 | 2 bits   |
| Wire connection                    | CAGE CLAMP®  |
| Cross sections                     | 0.08 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> / AWG 28 ... 14 |
| Stripped lengths, 750/753 Series   | 8 ... 9 mm / 0.33 in<br>9 ... 10 mm / 0.37 in                |
| Width                              | 12 mm  |
| Weight                             | 57 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)                            |
| EMC: marine applications           |  |
| - emission of interference         | acc. to Germanischer Lloyd (2003)                            |

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