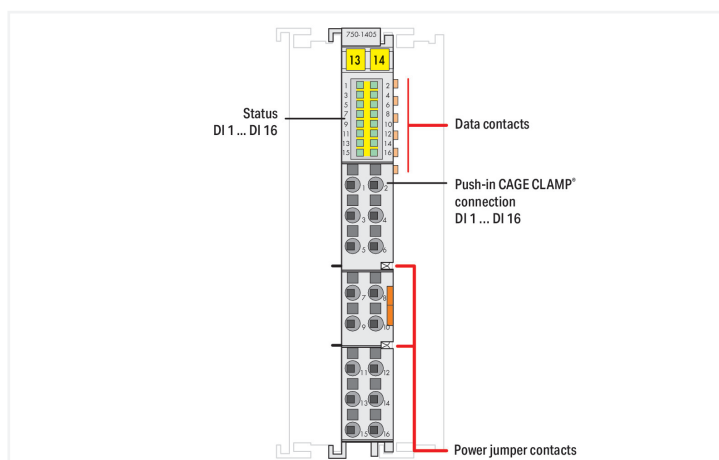
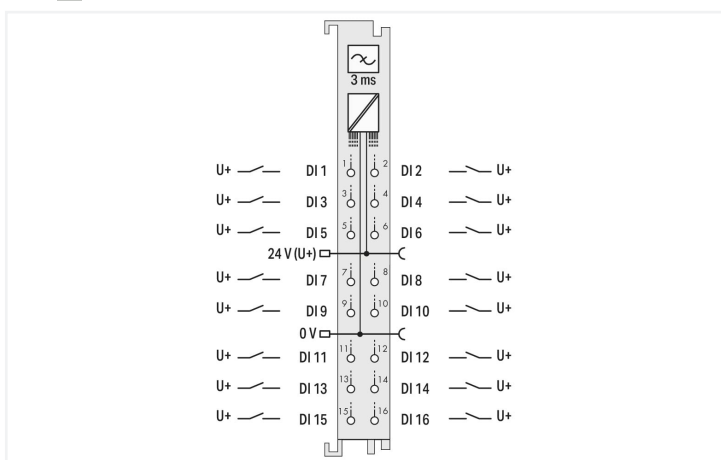
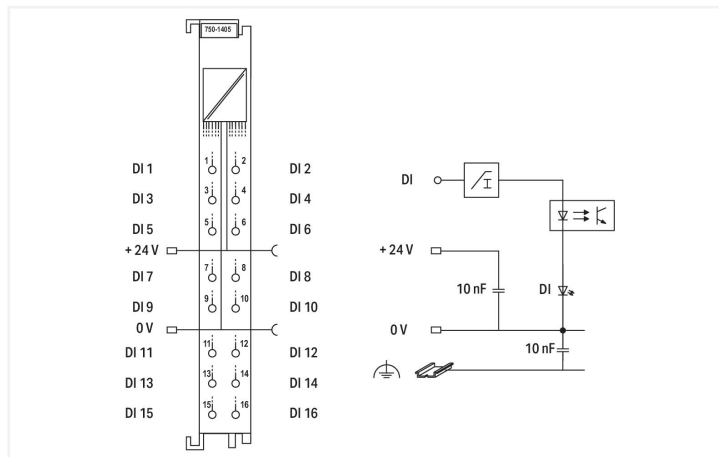




Color: light gray



This digital input module features 16 channels in a width of just 12 mm (0.47 inch). It receives binary control signals from digital field devices (e.g., sensors, encoders, switches or proximity sensors). The module features Push-in CAGE CLAMP® connections enabling solid conductors to be connected by simply pushing them in. Each input channel has a noise-rejection RC filter with 3.0 ms time constant. A green LED indicates the signal state of each channel. Field and system levels are electrically isolated. An operating tool with a 2.5 mm blade (210-719) is required to open the Push-in CAGE CLAMP® connections.

### Technical data

|   |                          |
|---|--------------------------|
| Number of digital inputs                      | 16                       |
| Total number of channels (module)             | 16                       |
| Signal type                                   | Digital                  |
| Signal type (voltage)                         | 24 VDC                   |
| Sensor connection                             | 16 x (1-wire)            |
| Input characteristic                          | high-side switching      |
| Input filter (digital)                        | 3 ms                     |
| Input current per channel for signal (0) typ. | 0.6 mA                   |
| Input current per channel for signal (1) typ. | 2.3 mA                   |
| Input current per channel for signal (1) min. | 2.1 mA                   |
| Input current per channel for signal (1) max. | 2.4 mA                   |
| Voltage range for signal (0)                  | -3 ... +5 VDC            |
| Voltage range for signal (1)                  | 15 ... 30 VDC            |
| Input data width (internal) max.              | 16 bits                  |
| Supply voltage (system)                       | 5 VDC; via data contacts |
| Current consumption (5 V system supply)       | 25 mA                    |

### Technical data

|   |   |
|---|---|
| Supply voltage (field)                            | 24 VDC (-25 ... +30 %); via power jumper contacts (power supply via blade contact; transmission via spring contact) |
| Isolation   | 500 V system/field  |
| Indicators  | LED (1-16) green: Status DI 1 ... DI 16   |
| Number of incoming power jumper contacts          | 2   |
| Number of outgoing power jumper contacts          | 2   |
| Current carrying capacity (power jumper contacts) | 10 A  |

### Connection data

|                                       |  |
|---------------------------------------|--|
| Connection technology: inputs/outputs | 16 x Push-in CAGE CLAMP®                     |
| Connection type 1                     | Inputs/outputs                               |
| Solid conductor                       | 0.08 ... 1.5 mm <sup>2</sup> / 28 ... 16 AWG |
| Fine-stranded conductor               | 0.25 ... 1.5 mm <sup>2</sup> / 22 ... 16 AWG |
| Strip length                          | 8 ... 9 mm / 0.31 ... 0.35 inches            |

### Physical data

|                                   |                        |
|-----------------------------------|------------------------|
| Width                             | 12 mm / 0.472 inches   |
| Height                            | 100 mm / 3.937 inches  |
| Depth                             | 69 mm / 2.717 inches   |
| Depth from upper-edge of DIN-rail | 61.8 mm / 2.433 inches |

### Mechanical Data

|                     |             |
|---------------------|-------------|
| Mounting type       | DIN-35 rail |
| Pluggable connector | fixed       |

### Material Data

|                    |                              |
|--------------------|------------------------------|
| Color              | light gray                   |
| Housing material   | Polycarbonate; polyamide 6.6 |
| Fire load          | 1.014 MJ                     |
| Weight             | 47 g                         |
| Conformity marking | CE                           |

### Environmental requirements

|  |                                       |
|--|---------------------------------------|
| Ambient temperature (operation)  | 0 ... +55 °C                          |
| Surrounding air temperature (storage)  | -25 ... +85 °C                        |
| Protection type  | IP20                                  |
| Pollution degree   | 2 per IEC 61131-2                     |
| Operating altitude   | 0 ... 2000 m / 0 ... 6562 ft          |
| Mounting position  | horizontal (standing/lying); vertical |
| Relative humidity (without condensation)   | 95 %                                  |
| Vibration resistance   | 4g per IEC 60068-2-6                  |
| Shock resistance   | 15g per IEC 60068-2-27                |
| EMC immunity to interference   | per EN 61000-6-2, marine applications |
| EMC emission of interference   | per EN 61000-6-3, marine applications |
| Exposure to pollutants   | per IEC 60068-2-42 and IEC 60068-2-43 |
| Permissible H <sub>2</sub> S contaminant concentration at a relative humidity 75 % | 10 ppm                                |
| Permissible SO <sub>2</sub> contaminant concentration at a relative humidity 75 %  | 25 ppm                                |

## Commercial data

|                       |                 |
|-----------------------|-----------------|
| Product Group         | 15 (I/O System) |
| eCl@ss 10.0           | 27-24-26-04     |
| eCl@ss 9.0            | 27-24-26-04     |
| ETIM 8.0              | EC001599        |
| ETIM 7.0              | EC001599        |
| PU (SPU)              | 1 pcs           |
| Packaging type        | Box             |
| Country of origin     | DE              |
| GTIN                  | 4045454905590   |
| Customs tariff number | 85389099990     |