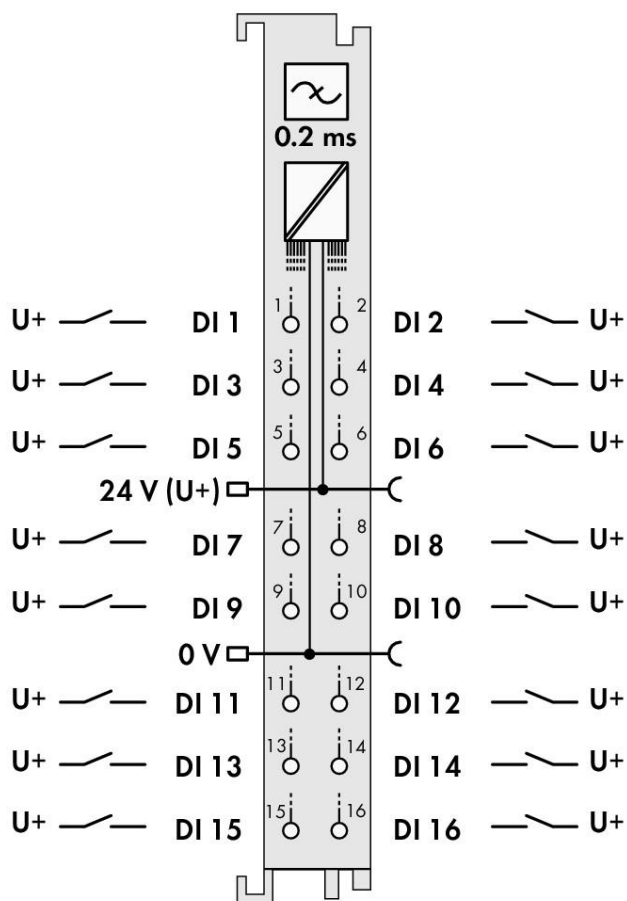




### Item description

The digital input module provides sixteen channels in a width of just 12 mm (0.47 inch). The module features Push-in CAGE CLAMP<sup>®</sup> connections enabling solid conductors to be connected by simply pushing them in. Each input channel has a noise-rejection RC filter with 0.2 ms time constant. A green LED indicates the switched status 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<sup>®</sup> connections.



## Data

## Technical Data

|                                                        |                                                                             |
|--------------------------------------------------------|-----------------------------------------------------------------------------|
| Number of digital inputs                               | 16                                                                          |
| Total number of channels (module)                      | 16                                                                          |
| Type of signal                                         | Voltage                                                                     |
| Type of signal voltage                                 | DC 24 V                                                                     |
| Sensor connection                                      | 16 x (1-conductor)                                                          |
| Input characteristic                                   | high-side switching                                                         |
| Input filter (digital)                                 | 0.2 ms                                                                      |
| Input current per channel for signal (0) typ.          | 0.6 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                                                               |
| Max. input data width (internal)                       | 16 Bit                                                                      |
| System supply voltage                                  | DC 5 V; via data contacts                                                   |
| Current consumption, system supply                     | 25 mA                                                                       |
| Field supply voltage                                   | DC 24 V (-25 ... 30 %); über Leistungskontakte; zur Weiterleitung getunnelt |
| Isolation field – system                               | 500 VAC (1 min)                                                             |
| 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 of the power jumper contacts | 10 A                                                                        |

## Connection data

|                                       |                                  |
|---------------------------------------|----------------------------------|
| Number of connections: Inputs/outputs | 16                               |
| Connection technology: inputs/outputs | 16 x Push-in CAGE CLAMP®         |
| Connection technology: inputs/outputs | Push-in CAGE CLAMP®              |
| Connection type (1)                   | Inputs/Outputs                   |
| Solid conductor                       | 0.08 ... 1.5 mm² / 28 ... 16 AWG |
| Fine-stranded conductor               | 0.25 ... 1.5 mm² / 22 ... 16 AWG |
| Strip length                          | 8 ... 9 mm / 0.31 ... 0.35 Inch  |
| Conductor type (1)                    | f-st                             |
| Conductor type (2)                    | s                                |
| Conductor type (1)                    | fine-stranded                    |
| Conductor type (2)                    | solid                            |



## Geometrical Data

|                                       |                      |
|---------------------------------------|----------------------|
| Width                                 | 12 mm / 0.472 Inch   |
| Height                                | 69 mm / 2.717 Inch   |
| Height from upper-edge of DIN-35 rail | 61.8 mm / 2.433 Inch |
| Depth                                 | 100 mm / 3.937 Inch  |

## Mechanical data

|                  |             |
|------------------|-------------|
| Type of mounting | DIN-35 rail |
|------------------|-------------|

## Material Data

|                    |                              |
|--------------------|------------------------------|
| Color              | lichtgrau                    |
| Housing material   | Polycarbonate, polyamide 6.6 |
| Weight             | 47.5 g                       |
| Conformity marking | CE                           |

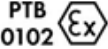
## Environmental Requirements

|                                                                                      |                                                                                                                    |
|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| Surrounding air (operating) temperature                                              | 0 ... 55 °C                                                                                                        |
| Surrounding air (storage) temperature                                                | -25 ... 85 °C                                                                                                      |
| Degree of protection                                                                 | IP20                                                                                                               |
| Degree of pollution (5)                                                              | 2 per IEC 61131-2                                                                                                  |
| Operating altitude                                                                   | without temperature derating: 0 ... 2000 m; with temperature derating: 2000 ... 5000 m (0.5 K/100 m); max.: 5000 m |
| Mounting position                                                                    | any                                                                                                                |
| Relative air humidity (no condensation)                                              | 95 %                                                                                                               |
| Vibration resistance                                                                 | 4g per IEC 60068-2-6                                                                                               |
| Shock resistance                                                                     | 15g per IEC 60068-2-27                                                                                             |
| EMC immunity to interference                                                         | acc. to EN 61000-6-2, marine applications                                                                          |
| EMC emission of interference                                                         | acc. to 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**

|                    |                 |
|--------------------|-----------------|
| Packaging type     | BOX             |
| Country of origin  | DE              |
| GTIN               | 4050821107958   |
| Customs Tariff No. | 85389099990     |
| Product Group      | 15 (Remote I/O) |

**Ex-Approvals**

| Logo                                                                             | Approval                                                          | Certificate name         |
|----------------------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------|
|  | <b>ATEX</b><br>TUEV Nord Cert GmbH                                | TÜV 07 ATEX 554086 X en. |
|  | <b>TUEV Nord</b><br>TUEV Nord Cert GmbH                           | IECEx TUN 09.0001 X      |
|                                                                                  | <b>UL</b><br>Underwriters Laboratories Inc. (HAZARDOUS LOCATIONS) | E198726 Sec.1            |

## Ship Approvals

| Logo                                                                               | Approval                             | Certificate name  |
|------------------------------------------------------------------------------------|--------------------------------------|-------------------|
|    | <b>BV</b><br>Bureau Veritas S.A.     | 30389/A1 BV       |
|    | <b>GL</b><br>Germanischer Lloyd      | 11 631 - 10 HH    |
|    | <b>LR</b><br>{Lloyds Register EMEA   | 02/20026 (E5)     |
|    | <b>NK</b><br>Nippon Kaiji Kyokai     | TA17255M          |
|   | <b>PRS</b><br>Polski Rejestr Statkow | TE/1989/880590/13 |
|  | <b>RINA</b><br>RINA Germany GmbH     | ELE134212XG       |

## UL-Approvals

| Logo                                                                               | Approval                                                            | Certificate name |
|------------------------------------------------------------------------------------|---------------------------------------------------------------------|------------------|
|  | <b>UL</b><br>UL International Netherlands B.V. (ORDINARY LOCATIONS) | E175199 Sec.1    |



## Product family

**750/753 Series I/O-System**

Show all products from the family.

Subject to changes.

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Do you have any questions about our products?

We are always happy to take your call at +49 (571) 887-44222.