

59.00 EUR

incl. 19% VAT, plus [shipping](#)

- Norvi X Series !
- 16x Digital Inputs !
- Extension !



- 16 × Optically isolated 24 V DC digital inputs
- Bi-directional optocouplers — support both sourcing (PNP) and sinking (NPN) inputs
- One common terminal for all eight inputs
- PCA9555 I<sup>2</sup>C port expander with 4 selectable addresses
- Up to 8 DI16 modules per controller (128 inputs max)
- Built-in over-voltage and reverse-polarity protection
- Status LED indicators for each input channel
- Plug-and-play connection to NORVI X CPU module via expansion bus
- DIN-rail mountable industrial enclosure

The NORVI X-DI16 is a 16-channel digital input expansion module for the NORVI X Modular Controller. It provides protected 24 V DC digital inputs for industrial switches, sensors, and logic-level signals.

At its core, the module integrates a PCA9555 I<sup>2</sup>C port expander, allowing the NORVI X CPU to read input states efficiently via the internal expansion bus. With four selectable I<sup>2</sup>C addresses, up to four DI16 modules can be connected on the same bus, providing a total of 64 digital inputs per controller.

Designed for modular scalability and DIN-rail mounting, the NORVI X-DI16 delivers reliable, noise-immune, and space-efficient 16-channel input expansion, making it ideal for industrial automation and control applications.

|                  |         |
|------------------|---------|
| Range of product | NORVI X |
|------------------|---------|

|                          |                                                                                                                                                                                                      |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product type / Model     | Expansion Module f. NORVI X Series<br>NORVI X-DI16                                                                                                                                                   |
| Certifications           | EN 61131-2:2007<br>EN 61010-1:2010+A1:2019<br>EN IEC 61010-2-201:2018<br>2014/30/EU- Electromagnetic Compatibility (EMC)<br>Annex III, Part B, Module C                                              |
| Dimensions               | 81 x 104 x 23 mm                                                                                                                                                                                     |
| Mounting                 | DIN RAIL                                                                                                                                                                                             |
| Terminal Type            | Push-in terminal                                                                                                                                                                                     |
| Environment              | <b>IP20</b><br>Operating altitude: 0-2000 meters<br>Operating Temperature: -10 ... - +85°C<br>Shock resistance: 15 gn for 11ms<br>Resistance to electrostatic discharge: 4kV on contact / 8kV on air |
| Supply Voltage (V)       | 24V / 80mA                                                                                                                                                                                           |
| <b>I/O Specification</b> |                                                                                                                                                                                                      |
| Number of Inputs         | 16 Digital Inputs                                                                                                                                                                                    |
| Input Type               | Isolated 24V DC                                                                                                                                                                                      |
| Input Voltage Range      | 0-30 V DC                                                                                                                                                                                            |
| Logic Low (OFF)          | < 5 V DC                                                                                                                                                                                             |
| Logic High (ON)          | > 15 V DC                                                                                                                                                                                            |
| Input Impedance          | ~ 7 mA @ 24V                                                                                                                                                                                         |
| Protection               | Over-voltage, Reverse Polarity, ESD Protected<br>Opto-coupler isolation per channel                                                                                                                  |
| Status Indicators        | 16x LED Input indicators                                                                                                                                                                             |
| Communication Bus / Type | Internal Expansion Bus<br>Push-in Terminal Block                                                                                                                                                     |