Digital input module 800-DI14

Data sheet

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Janitza®

Digital input module 800-DI14

(Suitable for basic devices of the 800 series -
suitable basic devices see user manual of the module)

Doc. no.: 2.053.108.1.a
Status: 11/2023
The German version is the original version of the documentation

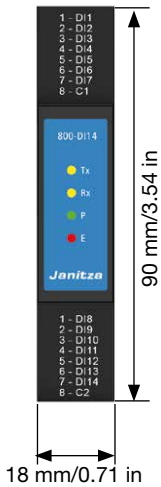
Subject to technical changes

The content of our documentation has been compiled with the utmost care and is based on the latest information available to us. Nevertheless, we would like to point out that the updating of this document cannot always be performed simultaneously with the further technical development of our products. Information and specifications can be changed at any time.
Please consult www.janitza.com for information on the current version.

Device views

- The figures serve as illustrations and are not true to scale.
- Dimensions in mm (in).

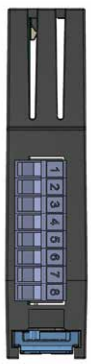
Front view



INFORMATION

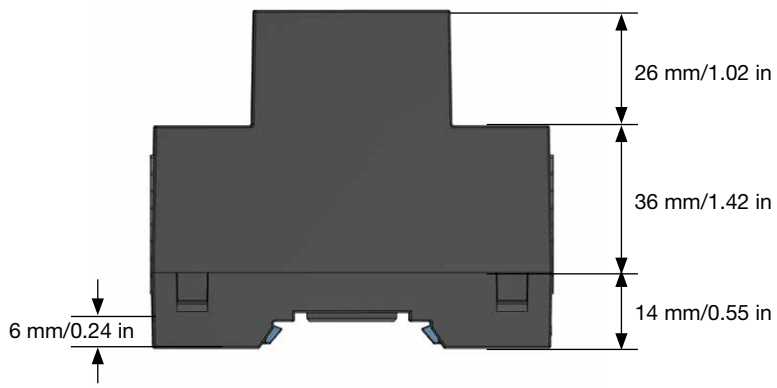
The dimensions of the device/module vary depending on the connection terminals used!

View from below



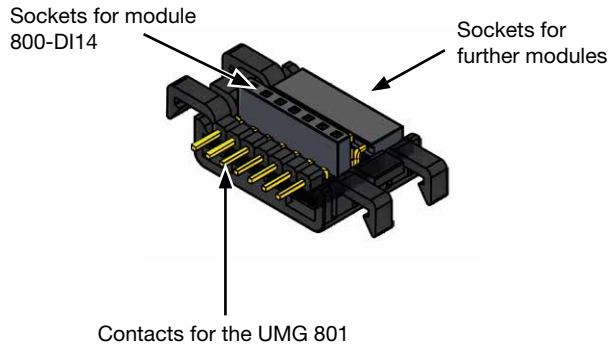
View from above

View from the left



Rear view

Communication bus connector for the modul 800-DI14



Technical data

General information	
Net weight (with plug-in terminals)	73 g (0.16 lb)
Device dimensions (without plug-in terminals)	B = 18 mm (w = 0.71 in), H = 90 mm (h = 3.54 in), T = 76 mm (d = 2.99 in)
Width of the device in horizontal pitches	1 HP (1 HP = 18 mm / 0.71 in)
Installation position	discretionary
Mounting/assembly - suitable DIN rails (35 mm / 1.38 in)	TS 35/7,5 according to EN 60715 TS 35/10 TS 35/15 x 1,5
Protection against foreign matter and water	IP20 according to EN60529
Impact resistance	IK07 according to IEC 62262

Transport and storage The following information applies to devices which are transported and stored in the original packaging.	
Free fall	1 m (39.37 in)
Temperature	K55: -25 °C (-13 °F) to +70 °C (158 °F)
Relative humidity	0 to 95% RH at 25 °C (77 °F) non-condensing

Ambient conditions during operation	
The module · only operate with suitable basic devices (see „Tab. suitable basic devices“ in the module user manual). · must be used in a weather-protected, stationary application. · fulfills the operating conditions according to DIN IEC 60721-3-3. · possesses protection class II according to IEC 60536 (VDE 0106, Part 1), a ground wire connection is not required!	
Measurement temperature range	-10 °C (14 °F).. +55 °C (131 °F)
Relative humidity	5 to 95% at 25 °C (77 °F) non-condensing
Pollution degree	2
Ventilation	No external ventilation required.
Supply voltage	Through the UMG 801basic device

Digital inputs 14 digital inputs, solid state relays, not short circuit proof	
Supply voltage for digital inputs	· 24V DC, +/- 10% · SELV or PELV · Energy-limited circuit
Maximum counter frequency	20 Hz
Input signal applied	18 .. 28 V DC (typically 4 mA)
Input signal not applied	0 .. 5 V DC, current less than 0.5 mA

Interface and power supply	
JanBus (proprietary)	· Via bus connector. · The maximum bus length of the JanBus is 100 m.
Supply voltage (via JanBus interface)	· 24 V

Connection capacity of the terminals - spring-type terminal (push in clambs) Connection capacity of the terminals - spring-type terminal (push in clambs)	
Single core, multi-core, fine-stranded (min. - max.)	0.14 mm^2 - 1.5 mm^2, AWG 26-16
Wire end ferrules with collar * according to DIN 46 228/4, (min. - max.)	0.25 mm^2 - 1 mm^2, AWG 22-17
Wire end ferrules without collar * according to DIN 46 228/4, (min. - max.)	0.25 mm^2 - 1.5 mm^2, AWG 22-16
Wire end ferrules: - Length of contact sleeve ** - Stripping length	 - 8 - 12 mm (0.31 - 0.47 in) - 10 - 12 mm (0.39 - 0.47 in)

* ... Applies to wire ferrules with a maximum plastic collar outer diameter of up to 3.5 mm (0.14 in).
**.. Depending on the type of wire ferrules used (ferrule manufacturer).

Module 800-DI14 LEDs	
Tx (send data)	Flash “orange” during operation and indicate cyclic data exchange.
Rx (receive data)	
P (power - power supply)	Lights up “green” when the power supply via the JanBus interface is correct.
E (error - initialization and malfunction)	Lights up “red” when initializing/starting the device and in the event of a fault.

ⓘ INFORMATION

Detailed information on the functions and data of the basic device can be found in the usage information included with the basic device or available for download at www.janitza.com!

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