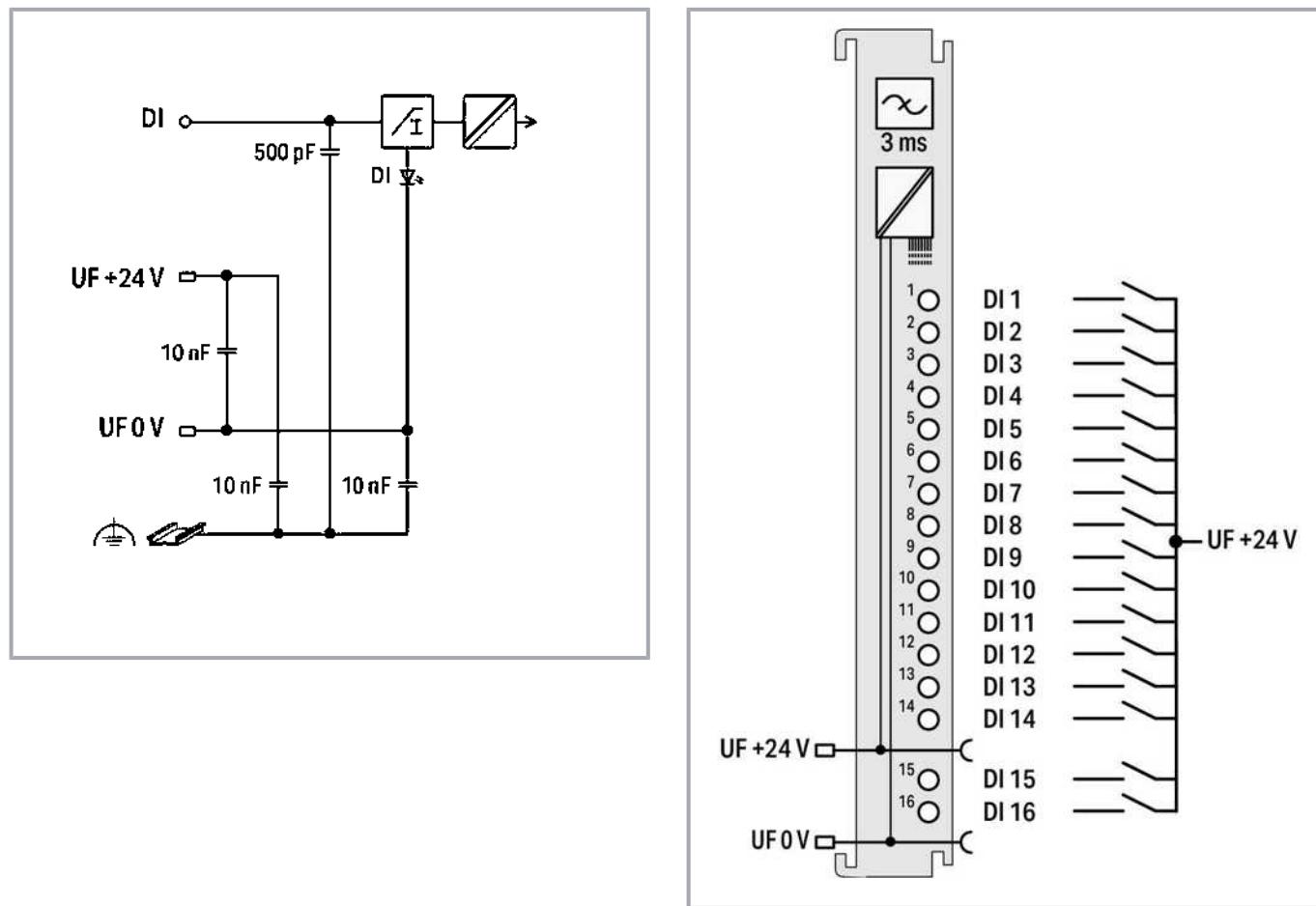


Subject to changes. Please also observe the further product documentation!



## Item description

This three-part digital input module is a 1-wire device featuring 16 channels in a width of just 12 mm (0.47 inch).

The module consists of a base module, an electronic module and a pluggable connector.

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.

A green LED indicates the signal state of each channel.

Field and system levels are electrically isolated.

## Data

### Technical data

Device-specific	Synchronization mode: time-synchronized, freewheeling
Number of digital inputs	16
Number of Channels	16
Signal type	Voltage
Signal type (voltage)	24 VDC

Subject to changes. Please also observe the further product documentation!

Sensor connection	16 x (1-wire)
Input characteristic	High-side switching
Input characteristic	Type 3, per IEC 61131-2
Input filter	3 ms
Input current at specific input voltage	2.4 mA at 24 V
Delay time T_on from 0 to 1	300 µs
Delay time T_off from 1 to 0	300 µs
Data width	16-bit channel status
Supply voltage (field)	24 VSELV DC (-25 ... +30 %); UF
Current consumption, field supply (module with no external load)	5 mA
Power loss P <sub>I</sub>	1.0 W
Isolation, Field/System	min. 1000 VDC (1 min); per EN/UL 61010-2-201
Dielectric strength	Up to ±35 V, at the digital input
Number of incoming power jumper contacts	2
Number of outgoing power jumper contacts	2
Current carrying capacity (power jumper contacts)	12 A
Marking	Cl I, Div. 2, Group A, B, C, D, T4

## Connection data

Connection technology: inputs / outputs	16 x Push-in CAGE CLAMP®
Connection type 1	Inputs/outputs
Solid conductor	0.25 ... 1.5 mm <sup>2</sup> / 22 ... 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 inch
Note (conductor cross-section)	Insulated ferrule: 0.75 mm <sup>2</sup> (max.)

## Physical data

Width	12 mm / 0.472 inch
Height	105 mm / 4.134 inch
Depth	75 mm / 2.953 inch

## Mechanical data

Mounting type	DIN-35 rail
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## Material data

Fire load	0.062 MJ
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Subject to changes. Please also observe the further product documentation!

Weight	71 g
Conformity marking	CE

## Environmental requirements

Ambient temperature (operation)	-25 ... +60 °C (Horizontal, typical control cabinet installation; -25 ... +50 °C, other mounting positions)
Surrounding air temperature (storage)	-40 ... +85 °C
Temperature range of connection cable per EN 61010-2-201	$\geq (T_{\text{ambient}} + 25 \text{ K})$
Temperature range of connection cable per UL 61010-2-201 (min.)	85 °C
Protection type	IP20
Pollution degree (5)	2
Operating altitude	without temperature derating: 0 ... 2000 m; with temperature derating: 2000 ... 3000 m (0.5 K/100 m)
Mounting position	horizontal, typical for control cabinets (nominal mounting position); horizontal (floor mounting position); standing (vertical at bottom)
Relative humidity (without condensation)	95 %
EMC immunity to interference	per EN 61000-6-1, -2
EMC emission of interference	per EN 61000-6-3, -4

## Commercial data

PU (SPU)	1 Stück
Country of origin VKOrg Germany	DE
GTIN	4055143975650
Customs tariff number VKOrg Germany	8538901000

## Approvals / Certificates

### Ex-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	UL Underwriters Laboratories Inc. (HAZARDOUS LOCATIONS)	UL 121201	E198726

### Ship Approvals

Logo	Approval	Additional Approval Text	Certificate name
	DNV DNV Germany GmbH	DNV-CG-0339,Aug.2021	TAA000031M

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#### UL-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	UL Underwriters Laboratories Inc. (ORDINARY LOCATIONS)	UL 61010-2-201	E175199

#### Installation Notes

#### Product family

WAGO I/O System Advanced  
[Show all products from the family](#)

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