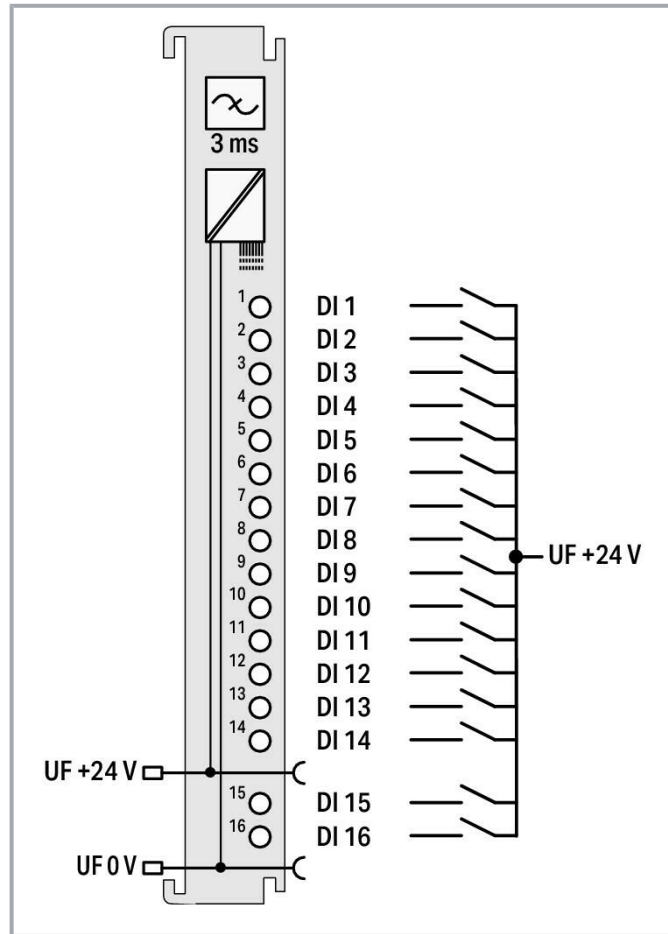
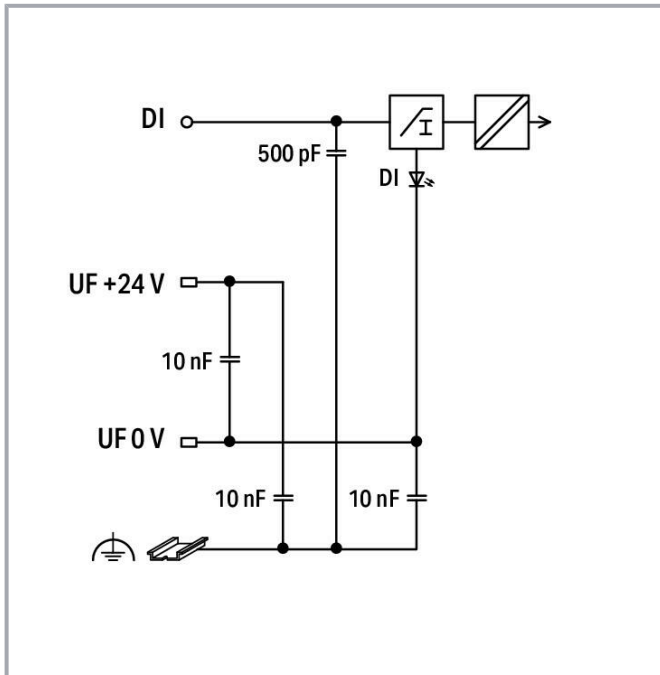


Subject to changes. Please also observe the further product documentation!

WAGO Kontakttechnik GmbH & Co. KG
Hansastr. 27
32423 Minden
Phone: +49571 887-0 | Fax: +49571 887-169
Email: info.de@wago.com | Web: www.wago.com

Do you have any questions about our products?
We are always happy to take your call at +49 (571) 887-44222.



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
Total number of channels (module)	16
Signal type	Voltage
Voltage signal type	24 VDC

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

WAGO Kontakttechnik GmbH & Co. KG
 Hansastr. 27
 32423 Minden
 Phone: +49571 887-0 | Fax: +49571 887-169
 Email: info.de@wago.com | Web: www.wago.com

Do you have any questions about our products?
 We are always happy to take your call at +49 (571) 887-44222.



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 VDC, SELV (-25 ... +30 %); UF
Power consumption, field supply (module with no external load)	5 mA
Power loss P _I	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	CI 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 ² / 22 ... 16 AWG
Fine-stranded conductor	0.25 ... 1.5 mm ² / 22 ... 16 AWG
Strip length	8 ... 9 mm / 0.31 ... 0.35 inch
Note (conductor cross-section)	Insulated ferrule: 0.75 mm ² (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
---------------	-------------

Material data

Fire load	0.047 MJ
-----------	----------

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

Weight	71 g
Conformity marking	CE

Environmental requirements


Surrounding air 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 the connecting cable according to EN 61010-2-201	$\geq (T_{\text{surrounding air}} + 25 \text{ K})$
Temperature range of connecting 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	DE
GTIN	4055143975650
Customs tariff number	85389099990

Approvals / Certificates

Ex-Approvals

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

UL-Approvals

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

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



LOCATIONS)

Optional accessories

Marking accessories

Marker



Item no.: 2009-141

Micro-WSB-Inline; 2000 pieces on roll; plain; snap-on type; white

www.wago.com/2009-141

Downloads

Documentation

System Description

I/O-System Advanced General Product Information

pdf
301.8 kB

Download

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 763-1116

16-channel digital input; 24 VDC

URL

Download

Installation Notes

Product family

I/O System Advanced

[Show all products from the family](#)

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

WAGO Kontakttechnik GmbH & Co. KG

Hansastr. 27

32423 Minden

Phone: +49571 887-0 | Fax: +49571 887-169

Email: info.de@wago.com | Web: www.wago.com

Do you have any questions about our products?

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