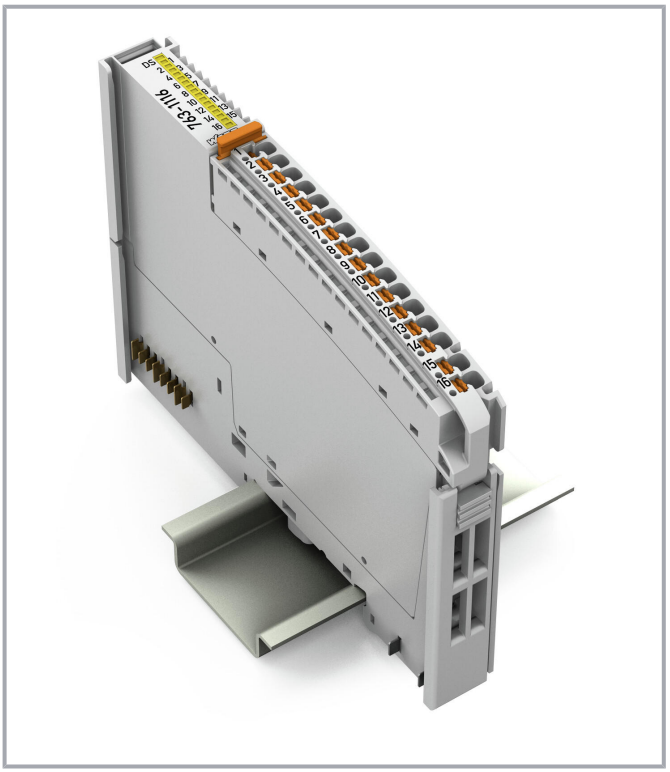
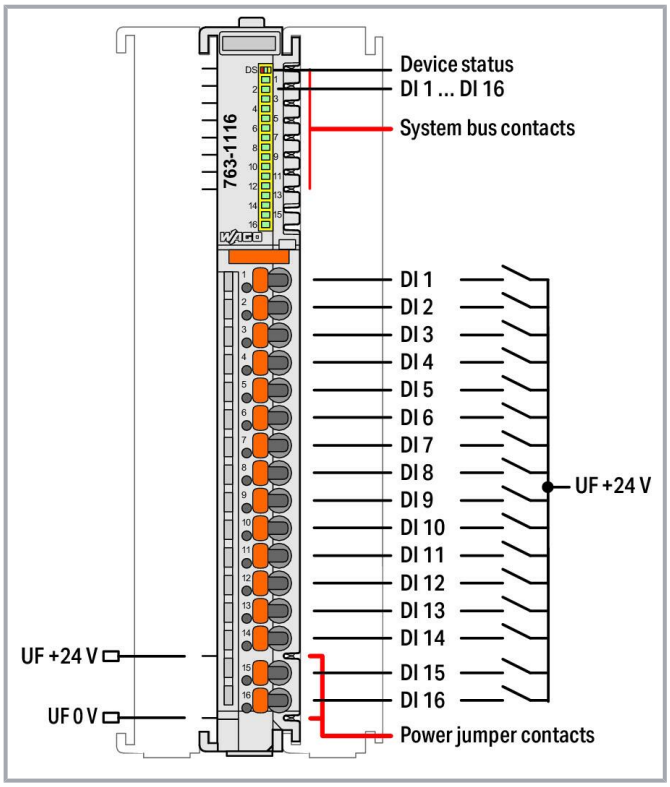
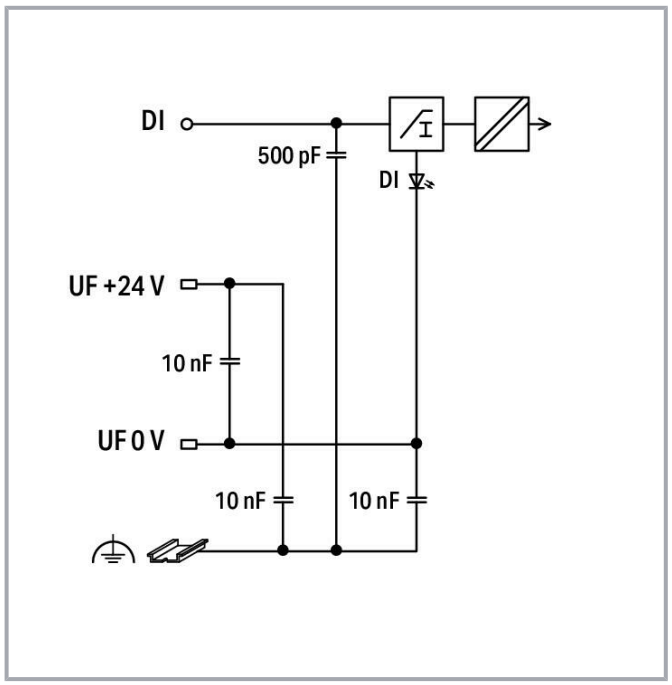


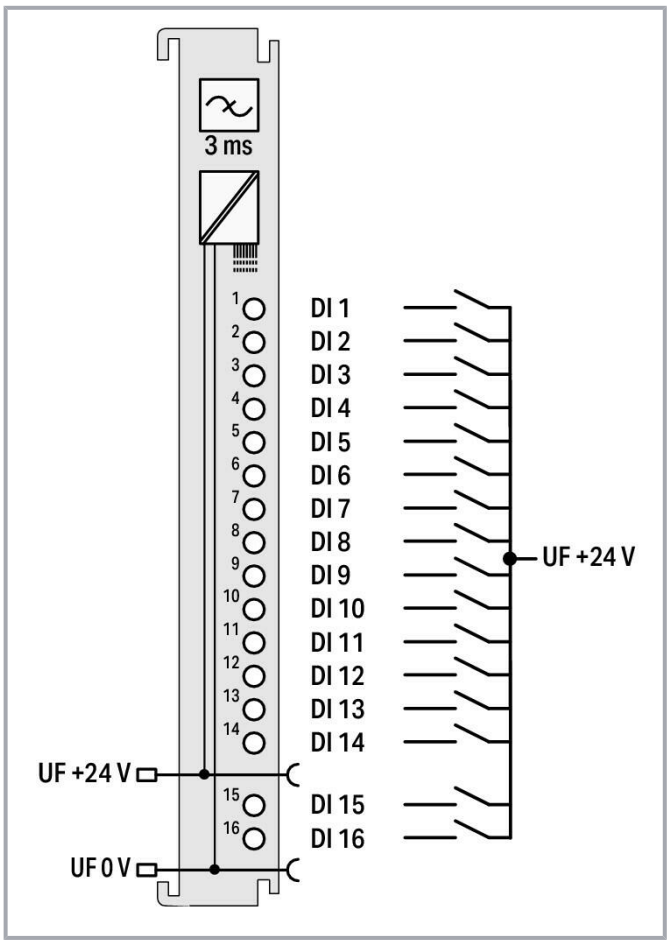


Subject to changes. Please also observe the further product documentation!

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

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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

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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_l	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 mm² / 22 … 16 AWG
Fine-stranded conductor	0.25 … 1.5 mm² / 22 … 16 AWG
Strip length	8 … 9 mm / 0.31 … 0.35 inch
Note (conductor cross-section)	Insulated ferrule: 0.75 mm² (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

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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	≥ ($T_{surrounding\ air}$ + 25 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

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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

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