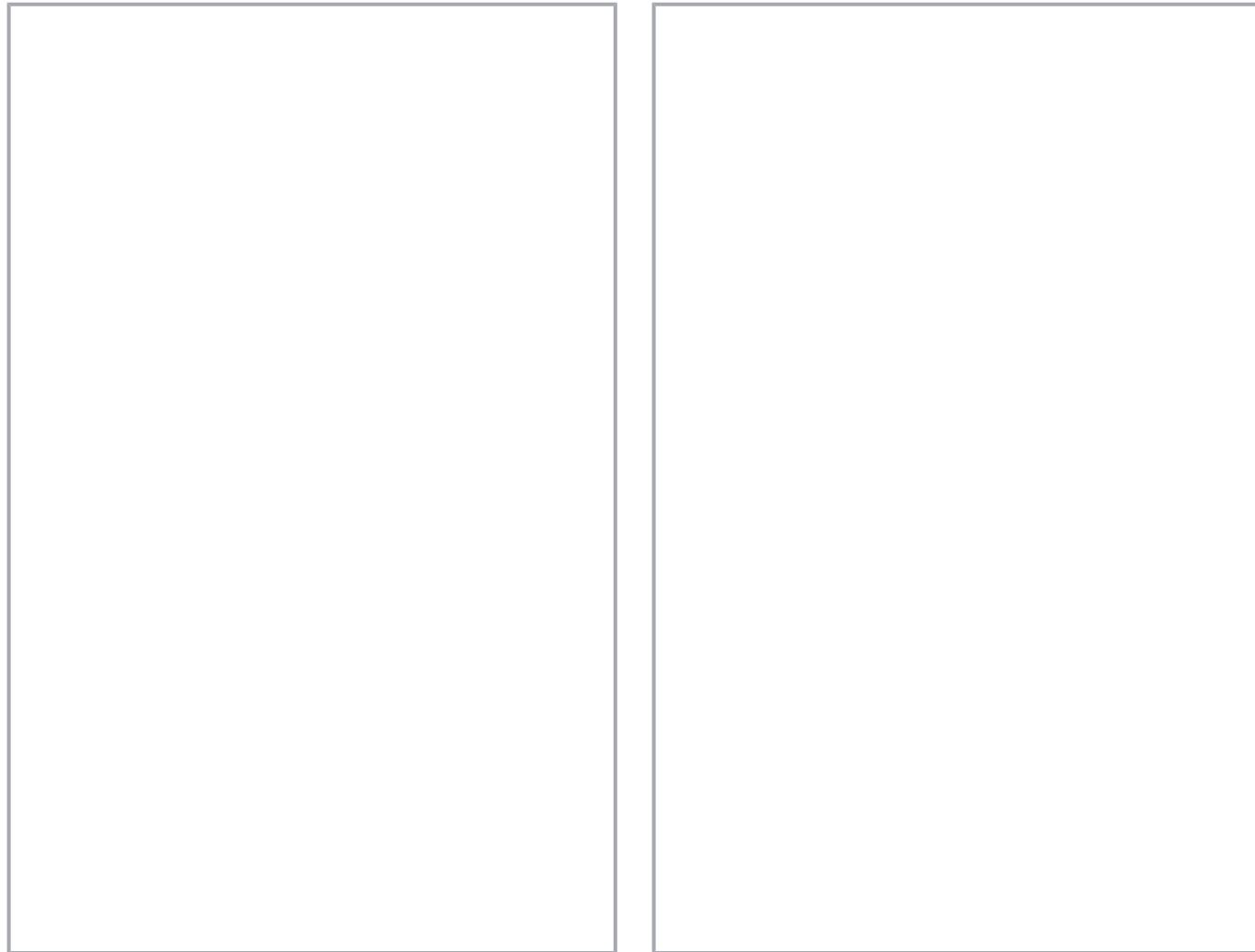


Data sheet | Item number: 753-661/000-004 **NEW**

Fail-safe 4-channel digital input; 24 VDC; PROFIsafe

www.wago.com/753-661_000-004



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

WAGO Corporation

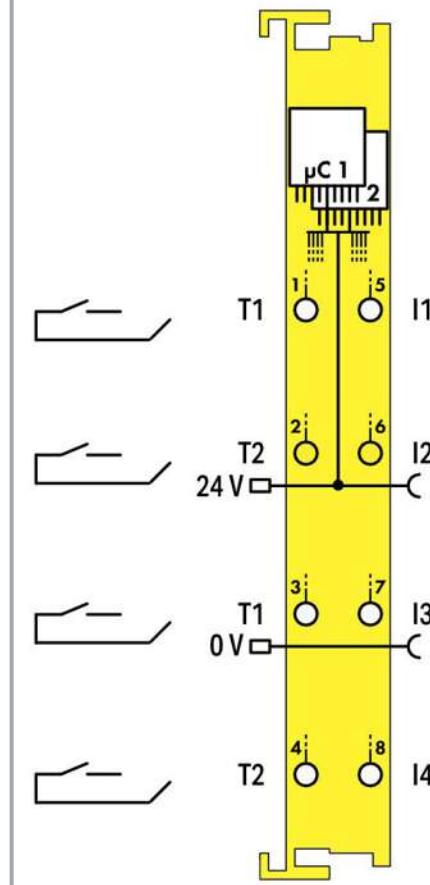
Germantown, WI 53022

Phone: 1-800-DIN-RAIL (346-7245) | Fax: (262) 255-6222

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

Do you have any questions about our products?

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



Item description

The PROFIsafe module 753-661/000-004 can connect to potential-free emergency stop buttons with contacts, safety interlock switches, operating mode switches, safety sensors and semiconductor outputs.

The module is equipped with 4 clock sensitive inputs (I1 ... I4) that are fed by 2 differently clocked outputs (T1 ... T2).

Clock outputs are short-circuit protected. Inputs are continually monitored for cross circuits and voltage supply from separate sources. Additional safety relevant parameters (e.g., operating modes, switching off test pulses, discrepancy or filter times) can be configured via WAGO-I/O-CHECK.

The configuration tool can be conveniently integrated into engineering systems supporting both CC2 and CC3 tool calling interfaces (TCI).

When exchanging modules, parameters are automatically downloaded into the control unit via PROFIsafe-compatible iPar server – depending on settings. The PROFIsafe address can be set using the DIP switch located on the side of the module, or via WAGO-I/O-CHECK.

The module supports the PROFIsafe V2.6 (PROFINET) protocol.

Field and system level are galvanically separated from each other.

Individual I/O modules can be arranged in any combination when configuring the fieldbus node.

If necessary (e.g. cable length of the 24V supply greater than 3 meters), a WAGO filter module or an appropriate external filter must be used for the 24 V power supply to protect the module against surge and burst (per IEC 61000-6-7 and marine applications).

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

Additional information can be found in the product manual (available in German and English).

The module 75x-661/000-004 has been evaluated by UL in accordance with the standards UL/CSA 61010-1, UL/CSA 61010-2-201 and UL 121201, CSA-C22.2 No. 213.

Functional safety evaluations according to the specified standards were carried out by TÜV Rheinland.

Data Notes

Note

Pluggable connectors and coding fingers (753 Series) are not included.

Technical data

Number of digital inputs	4
Number of Channels	4
Signal type	Voltage
Signal type (voltage)	24 VDC
Input characteristic	Clock sensitive
Input characteristic	Type 1 per IEC 61131
Input current per channel for signal (1) typ.	3 mA
Output current per channel	0.1 A
Signal frequency (max.)	50 Hz
Configuration options	PROFIsafe address adjustable via DIP switch or engineering software
Supply voltage (system)	5 VDC; via data contacts
Current consumption (5 V system supply)	120 mA
Supply voltage (field)	24 VSELV/PELV DC (-25 ... +30 %); via power jumper contacts (power supply via blade contact; transmission via spring contact)
Current consumption, field supply (module with no external load)	25 mA
Indicators	LED (A-D) green/red: Status/Error I1 ... I4; LED (E) red: Group error; LED (F-H) green/red: Diagnostics
Number of incoming power jumper contacts	2
Number of outgoing power jumper contacts	2
Current carrying capacity (power jumper contacts)	10 A

Functional Safety

Achievable safety classes	SIL 3; Category 4, PLe (two-channel); SIL 2; Category 2; PLd (one-channel)
Safety standards	IEC 61508-1 ... -7; EN ISO 13849-1; EN 62061

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

Interface types according to ZVEI (inputs)

Drain; A, C0, C1, C2, C3

Connection data

Connection technology: inputs / outputs	8 x CAGE CLAMP®
Connection type 1	Inputs/outputs
Solid conductor	0.08 ... 2.5 mm² / 28 ... 14 AWG
Fine-stranded conductor	0.08 ... 2.5 mm² / 28 ... 14 AWG
Strip length	9 ... 10 mm / 0.35 ... 0.39 inch

Physical data

Width	12 mm / 0.472 inch
Height	100 mm / 3.937 inch
Depth	67.8 mm / 2.669 inch
Depth from upper-edge of DIN-rail	60.6 mm / 2.386 inch

Mechanical data

Mounting type	DIN-35 rail
Pluggable connector	Pluggable

Material data

Housing material	Polycarbonate; polyamide 6.6
Fire load	0.812 MJ
Weight	42 g
Conformity marking	CE

Environmental requirements

Ambient temperature (operation)	0 ... +55 °C
Surrounding air temperature (storage)	-25 ... +85 °C
Protection type	IP20
Pollution degree (5)	2 per IEC 61131-2
Operating altitude	0 ... 2000 m / 0 ... 6562 ft
Mounting position	Horizontal (standing/lying); vertical
Relative humidity (without condensation)	95 %
Vibration resistance	4g per IEC 60068-2-6
Shock resistance	15g per IEC 60068-2-27
EMC immunity to interference	Per EN 61000-6-2, marine applications, EN 61000-6-7 (FS)

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

EMC emission of interference	Per EN 61000-6-3, -4; marine applications
Exposure to pollutants	Per IEC 60068-2-42 and IEC 60068-2-43
Permissible pollutant concentration H ₂ S at a relative humidity < 75%	10 ppm
Permissible pollutant concentration SO ₂ at a relative humidity < 75%	25 ppm

Commercial data

PU (SPU)	1 Pieces
Country of origin VKOrg Germany	DE
GTIN	4066966213447
Customs tariff number VKOrg Germany	85389099990

Approvals / Certificates

Ex-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	UL Underwriters Laboratories Inc. (HAZARDOUS LOCATIONS)	UL 121201	E198726 Sec.1

Country specific Approvals

Logo	Approval	Additional Approval Text	Certificate name
	TUEV Rheinland TUEV Rheinland Industrie Service GmbH	-	No. 968 /EZ 247.18 /21

Ship Approvals

Logo	Approval	Additional Approval Text	Certificate name
	DNV DNV Germany GmbH	DNV-CG-0339,Aug.2021	TAA0000194

UL-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	UL Underwriters Laboratories Inc. (ORDINARY LOCATIONS)	UL 61010-2-201	E175199 Sec11

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

Required accessories

Pluggable connector

Accessories

Item no.: 753-120
Plug; Safety

www.wago.com/753-120

Optional accessories

Shield termination

Shield clamping saddles

Item no.: 790-216
Shield clamping saddle; 21.8 mm wide; 6-16 mm diameter conductors

www.wago.com/790-216

Item no.: 790-220
Shield clamping saddle; 30 mm wide; 6-20 mm diameter

www.wago.com/790-220

Item no.: 790-208
Shield clamping saddle; 12.4 mm wide; 3-8 mm diameter conductors

www.wago.com/790-208

Shield

Item no.: 790-116
Shield clamping saddle; 19 mm wide; 7-16 mm diameter conductors

www.wago.com/790-116

Item no.: 790-124
Shield clamping saddle; 27 mm wide; 6-24 mm diameter conductors

www.wago.com/790-124

Item no.: 790-108
Shield clamping saddle; 11 mm wide; 0-8 mm diameter conductors

www.wago.com/790-108

Item no.: 790-140
Shield clamping saddle; 43 mm wide; 22-40 mm diameter conductors

www.wago.com/790-140

Carrier rail

Mounting accessories

Item no.: 210-197
Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; similar to EN 60715; silver-colored

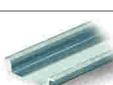
www.wago.com/210-197

Item no.: 210-198
Copper carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; copper-colored

www.wago.com/210-198

Item no.: 210-504
Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; galvanized; according to EN 60715; silver-colored

www.wago.com/210-504



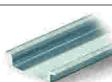
Item no.: 210-505
Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; galvanized; according to EN 60715; silver-colored

www.wago.com/210-505

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

**Item no.: 210-506**

Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; galvanized; similar to EN 60715; silver-colored www.wago.com/210-506

**Item no.: 210-508**

Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; galvanized; similar to EN 60715; silver-colored www.wago.com/210-508

**Item no.: 210-113**

Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; according to EN 60715; silver-colored www.wago.com/210-113

**Item no.: 210-118**

Steel carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; silver-colored www.wago.com/210-118

**Item no.: 210-112**

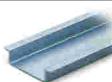
Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; according to EN 60715; "Hole width 25 mm"; silver-colored www.wago.com/210-112

**Item no.: 210-114**

Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; similar to EN 60715; silver-colored www.wago.com/210-114

**Item no.: 210-115**

Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; according to EN 60715; "Hole width 18 mm"; silver-colored www.wago.com/210-115

**Item no.: 210-196**

Aluminum carrier rail; 35 x 8.2 mm; 1.6 mm thick; 2 m long; unslotted; similar to EN 60715; silver-colored www.wago.com/210-196

Pluggable connector**Accessories****Item no.: 753-150**

753 Series coding elements www.wago.com/753-150

Marking accessories**Accessories****Item no.: 750-103**

Group marker carrier www.wago.com/750-103

Item no.: 750-107

Group marker carrier www.wago.com/750-107

Marker**Item no.: 2009-145/000-006**

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; blue www.wago.com/2009-145/000-006

Item no.: 2009-145

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white www.wago.com/2009-145

Item no.: 2009-145/000-002

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; yellow www.wago.com/2009-145/000-002

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

Item no.: 2009-145/000-007

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; gray

www.wago.com/2009-145/000-007**Item no.: 2009-145/000-005**

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; red

www.wago.com/2009-145/000-005**Item no.: 2009-145/000-012**

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; orange

www.wago.com/2009-145/000-012**Item no.: 2009-145/000-023**

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; green

www.wago.com/2009-145/000-023**Item no.: 2009-145/000-024**

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; violet

www.wago.com/2009-145/000-024**Item no.: 248-501/000-006**

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; blue

www.wago.com/248-501/000-006**Item no.: 248-501/000-007**

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; gray

www.wago.com/248-501/000-007**Item no.: 248-501/000-002**

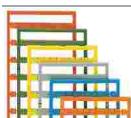
Mini-WSB marking card; as card; not stretchable; plain; snap-on type; yellow

www.wago.com/248-501/000-002**Item no.: 248-501/000-012**

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; orange

www.wago.com/248-501/000-012**Item no.: 248-501**

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; white

www.wago.com/248-501**Item no.: 248-501/000-017**

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; light green

www.wago.com/248-501/000-017**Item no.: 248-501/000-005**

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; red

www.wago.com/248-501/000-005

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

**Item no.: 248-501/000-024**

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; violet

www.wago.com/248-501/000-024**Item no.: 248-501/000-023**

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; green

www.wago.com/248-501/000-023**Supply module**

Supply module

Item no.: 750-601

Power Supply; 24 VDC; fuse holder

www.wago.com/750-601**I/O Modules****Item no.: 750-610**

Power Supply; 24 VDC; fuse holder; Diagnostics

www.wago.com/750-610**Item no.: 750-602**

Power Supply; 24 VDC

www.wago.com/750-602**Item no.: 750-612**

Power Supply; 0 ... 230 V AC/DC

www.wago.com/750-612**Item no.: 753-612**

Power Supply; 0 ... 230 V AC/DC

www.wago.com/753-612**Item no.: 753-602**

Power Supply; 24 VDC

www.wago.com/753-602**System housing**

Enclosures

Item no.: 850-814/002-000

IP65 enclosure; Sheet steel (RAL 7035); WxHxD (200x120x200 mm); without flange plate

www.wago.com/850-814/002-000**Item no.: 850-815/002-000**

IP65 enclosure; Sheet steel (RAL 7035); WxHxD (300x120x200 mm); without flange plate

www.wago.com/850-815/002-000**Item no.: 850-816/002-000**

IP65 enclosure; Sheet steel (RAL 7035); WxHxD (400x120x200 mm); without flange plate

www.wago.com/850-816/002-000**Item no.: 850-817/002-000**

IP65 enclosure; Sheet steel (RAL 7035); WxHxD (600x120x200 mm); without flange plate

www.wago.com/850-817/002-000**Item no.: 850-825**

IP65 enclosure; Aluminium (RAL 7032); WxHxD (160x100x160 mm); 9 x M12, 4 x M20

www.wago.com/850-825

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

	Item no.: 850-826 IP65 enclosure; Aluminium (RAL 7032); WxHxD (240x100x160 mm); 4 x M20, 4 x M16, 14 x M12 cable grip	www.wago.com/850-826
	Item no.: 850-827 IP65 enclosure; Aluminium (RAL 7032); WxHxD (320x100x160 mm); 4 x M20, 8 x M16, 17 x M12 cable grip	www.wago.com/850-827
	Item no.: 850-827/002-000 IP65 enclosure; Aluminium (RAL 7035); WxHxD (320x100x160 mm); 4 x M20, 8 x M16, 17 x M12 cable grip	www.wago.com/850-827/002-000
	Item no.: 850-826/002-000 IP65 enclosure; Aluminium (RAL 7035); WxHxD (240x100x160 mm); 4 x M20, 4 x M16, 14 x M12 cable grip	www.wago.com/850-826/002-000
	Item no.: 850-828/002-000 IP65 enclosure; Aluminium (RAL 7035); WxHxD (480x100x160 mm); 4 x M20, 10 x M16, 35 x M12 cable grip	www.wago.com/850-828/002-000
	Item no.: 850-828 IP65 enclosure; Aluminium (RAL 7032); WxHxD (480x100x160 mm); 4 x M20, 10 x M16, 35 x M12 cable grip	www.wago.com/850-828
	Item no.: 850-834 IP65 enclosure; Polyester (RAL 7032); WxHxD (164x100x164 mm); 9 x M12, 4 x M20	www.wago.com/850-834
	Item no.: 850-835 IP65 enclosure; Polyester (RAL 7032); WxHxD (244x100x164 mm); 4 x M20, 4 x M16, 14 x M12 cable grip	www.wago.com/850-835
	Item no.: 850-836 IP65 enclosure; Polyester (RAL 7032); WxHxD (324x100x164 mm); 4 x M20, 8 x M16, 17 x M12 cable grip	www.wago.com/850-836

Downloads

Documentation

Data sheet

753-661/000-004; 4FDI 24V PROFIsafe	Download
-------------------------------------	--------------------------

Manual

4FDI 24V PROFIsafe Fail-safe 4-channel digital input; 24 VDC; PROFIsafe	V 1.0.0 2022 Feb 25	pdf 5.7 MB	Download
--	------------------------	---------------	--------------------------

System Description

750/753 Series I/O-System – General Product Information	pdf 1.7 MB	Download
---	---------------	--------------------------

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

Position Paper CB241 of the German Electrical and Electronic Manufacturer's Association (ZVEI)

pdf
191.0 kB

[Download](#)

Overview on WAGO-I/O-SYSTEM 750 approvals

pdf
789.0 kB

[Download](#)

Functional Safety – General Product Information

pdf
223.0 kB

[Download](#)

Additional Information

Disposal; Electrical and electronic equipment, Packaging

V 1.0.0

pdf
265.8 kB

[Download](#)

Libraries

SISTEMA library

SISTEMA-Bibliothek

2.08
2021 Nov 22

zip
204.1 kB

[Download](#)

VDMA-Bibliothek

0.0.10
2021 Nov 22

zip
411.7 kB

[Download](#)

Library

SISTEMA-Bibliothek

2.08
2021 Nov 22

zip
204.1 kB

[Download](#)

VDMA-Bibliothek

0.0.10
2021 Nov 22

zip
411.7 kB

[Download](#)

Engineering-Software

Configuration and Commissioning Software

Safety Editor (SEDI) / 750-66x

3.1.4.0

zip
20.2 MB

[Download](#)

Loadable safety editor module for parameterisable failsafe modules for integration in IO-Check from version 3.3.2 or higher.

CAD files

CAD data

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

WAGO Corporation

Germantown, WI 53022

Phone: 1-800-DIN-RAIL (346-7245) | Fax: (262) 255-6222

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

Do you have any questions about our products?

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

2D/3D Models 753-661/000-004

URL

Download

Environmental Product Compliance

[Compliance Search](#)

Environmental Product Compliance 753-661/000-004

Download

Fail-safe 4-channel digital input; 24 VDC; PROFIsafe

Installation Notes

Product family

Couplers & I/O modules:

[Show all products from the family](#)

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

WAGO Corporation

Germantown, WI 53022

Phone: 1-800-DIN-RAIL (346-7245) | Fax: (262) 255-6222

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

Do you have any questions about our products?

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