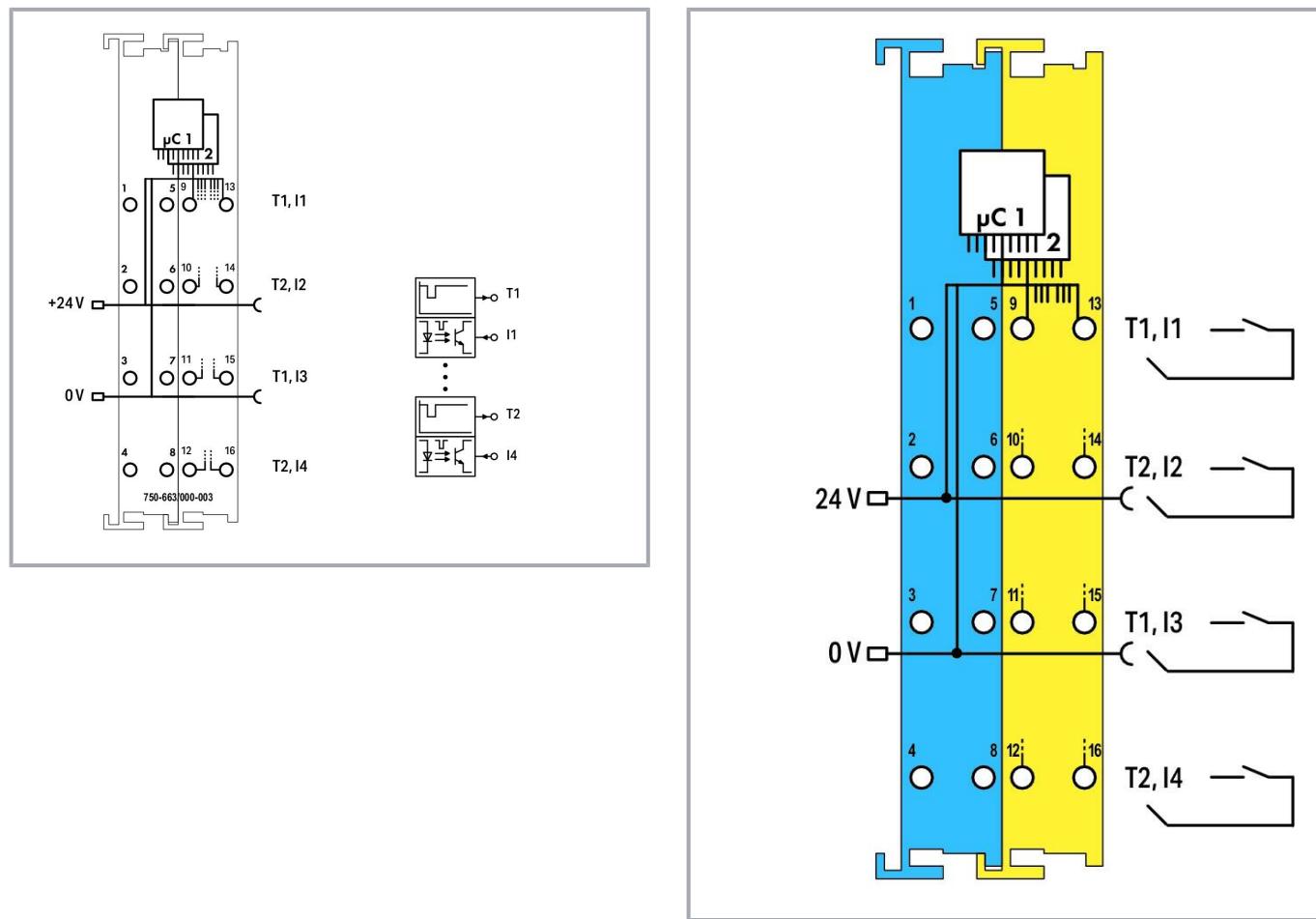


Subject to changes. Please also observe the further product documentation!



Item description

The intrinsically safe PROFIsafe Input Module (750-663/000-003) for functional safety provides risk reductions up to SIL 3, Cat. 4, PL e, and connects to potential-free, contact-based emergency stop switches, safety door switches, mode selectors, as well as safety sensors, that are located hazardous environments 0, 1 and 2. The fail-safe input module must be located in Zone 2.

The input module features four clock-sensitive inputs (I1 ... I4) that are fed by two differently clocked outputs (T1 ... T2). Inputs are continually monitored for cross circuits and power supply from separate sources.

Additional safety-relevant functions (e.g., operating modes, switching off test pulses, discrepancy or filter times) can be configured via WAGO-I/O-CHECK. This configuration tool supports both CC2 and CC3 tool calling interfaces (TCI). When exchanging the module, parameters are automatically downloaded by the controller via PROFIsafe-compatible iPar server – depending on settings. The module supports both PROFIsafe V1 and V2 (PROFIBUS, PROFINET) protocols.

Individual modules can be arranged in any combination within the fieldbus node's Ex segment.

Note 1:

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

The PROFIsafe Input Module must only be operated using an Ex i 24 VDC power supply (e.g., 750-606, 750-625/000-001)! General information (e.g., installation regulations) on explosion protection is available in the WAGO I/O System 750 manuals!

Note 2:

To protect the module against surge voltages (surge protection per IEC 61000-4-5), a filter module (750-626 or 750-624) or an external surge filter must be used upstream of the Ex i 24 VDC power supply.

Reference the product manual for further information!

Data

Technical data

Number of digital inputs	4
Total number of channels (module)	4
Signal type	Digital Voltage
Signal type (voltage)	24 VDC
Sensor connection	4 x (Fail-safe input with test pulse)
Input characteristic	clock sensitive
Input characteristic	Type 1 per IEC 61131
Input filter (digital)	0.5 ms 1 ms 2 ms 3 ms 5 ms 10 ms 20 ms 50 ms 100 ms 200 ms 0 ms
Input filter	0 ... 200 ms (parameterizable in steps)
Input filter: parametrizable (channel by channel)	yes
Input current per channel for signal (1) typ.	3 mA
Output current per channel	0.05 A
Short-circuit current	≤ 25 mA
Signal frequency (max.)	50 Hz
Intrinsic safety Ex i	yes
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)	145 mA
Supply voltage (field)	

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

Current consumption, field supply (module with no external load)	20 mA
Isolation	300 VAC system/field
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)	1 A
Marking	ATEX/IECEx: II 3 (1) G Ex ec [ia Ga] IIC T4 Gc; II (1) D [Ex ia Da] IIIC; I (M1) [Ex ia Ma] I

Functional safety

Achievable risk reduction	SIL 3 per IEC 61508; SIL 3 per IEC 61511; SIL 3 per IEC 62061; Cat. 4, PL e per EN ISO 13849
Safety standards	IEC 61508; IEC 62061; EN ISO 13849; IEC 61511

Explosion protection

Ex standard	EN IEC 60079-0, -7, -11
Safety-relevant data (circuit)	$U_o = 27.3 \text{ V}$; $I_o = 23 \text{ mA}$; $P_o = 157 \text{ mW}$; linear characteristic curve
Reactances Ex ia IIC	$L_o = 61 \text{ mH}$; $C_o = 64 \text{ nF}$
Reactances Ex ia IIB	$L_o = 100 \text{ mH}$; $C_o = 552 \text{ nF}$
Reactances Ex ia IIA	$L_o = 100 \text{ mH}$; $C_o = 2.28 \mu\text{F}$
Reactances Ex ia I	$L_o = 100 \text{ mH}$; $C_o = 2.95 \mu\text{F}$
Reactances (note)	Reactances without accounting for the concurrence of capacitance (C_o) and inductance (L_o)

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	8 ... 9 mm / 0.31 ... 0.35 inches
Connection requirement (permissible cable length)	100 m

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

Physical data

Width	24 mm / 0.945 inches
Height	100 mm / 3.937 inches
Depth	67.8 mm / 2.669 inches
Depth from upper-edge of DIN-rail	60.6 mm / 2.386 inches

Mechanical Data

Mounting type	DIN-35 rail
---------------	-------------

Material Data

Housing material	Polycarbonate; polyamide 6.6
Fire load	2.021 MJ
Weight	92 g
Conformity marking	CE

Environmental requirements

Ambient temperature (operation)	0 ... +55 °C
Ambient temperature (storage)	-25 ... +85 °C
Protection type	IP20
Pollution degree	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
EMC emission of interference	per EN 61000-6-3, marine applications
Exposure to pollutants	Per IEC 60068-2-42 and IEC 60068-2-43
Permissible H ₂ S contaminant concentration at a relative humidity 75 %	10 ppm
Permissible SO ₂ contaminant concentration at a relative humidity 75 %	25 ppm

Commercial data

Product Group	15 (I/O System)
eCl@ss 10.0	27-24-26-04

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

eCl@ss 9.0	27-24-26-04
ETIM 8.0	EC001599
ETIM 7.0	EC001599
PU (SPU)	1 pcs
Packaging type	box
Country of origin	DE
GTIN	4050821531432
Customs tariff number	85389099990

Environmental Product Compliance

CAS-No.	7439-92-1
REACH Candidate List Substance	Lead
RoHS Compliance Status	Compliant,With Exemption
RoHS Exemption	6(c) 7(a) 7(c)-I 7(c)-II
SCIP notification number (Bulgaria)	82e07570-a169-4fe7-a240-63fd83aae491
SCIP notification number (Czech Republic)	8fadb04a-9632-45dc-af1f-89fba248000b

Approvals / Certificates

General approvals

Logo	Approval	Additional Approval Text	Certificate name
	CCC CNEX	CNCA-C23-01	2020312310000211 (Ex ec[iaGa] IIC T4 Gc, [Ex iaDa] IIIC, [Ex iaMa] I)
	EAC Brjansker Zertifizierungsstelle	TP TC 020/2011	EAC RU C-DE.AM02. B.00087/19
	KC National Radio Research Agency	Article 58-2, Clause 3	MSIP-REM-W43- DIM750
	UL Underwriters Laboratories Inc. (ORDINARY LOCATIONS)	UL 508	E175199 Sec.1

Declarations of conformity and manufacturer's declarations

Certificate

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

Logo	Approval	Additional Approval Text	name
	EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-

Approvals for marine applications

Logo	Approval	Additional Approval Text	Certificate name
	ABS American Bureau of Shipping	-	22-2219060
	DNV DNV GL SE	DNV-CG-0339,Aug.2021	TAA0000194
	LR Lloyds Register EMEA	-	LR22180952TA
	PRS Polski Rejestr Statków	-	TE/2236/880590 /19
	RINA RINA Germany GmbH	-	ELE343521XG001

Approvals for hazardous areas

Logo	Approval	Additional Approval Text	Certificate name
	AEx UL International Germany GmbH	UL 60079	E480271
	ATEX TUEV Nord Cert GmbH	EN 60079-0 (Ex ec[iaGa] IIC T4 Gc, [Ex iaDa] IIIC, [Ex iaMa] I)	TUEV_12_ATEX_106032X (Ex ec[iaGa] IIC T4 Gc, [Ex iaDa] IIIC, [Ex iaMa] I)
	CCC CNEX	CNCA-C23-01	2020312310000211 (Ex ec[iaGa] IIC T4 Gc, [Ex iaDa] IIIC, [Ex iaMa] I)

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

EAC Brjansker Zertifizierungsstelle	TP TC 012/2011	EAC RU C-DE.AM02.B. 00163/19 ([ExiaMa] I X,2Ex e[iaGa]IIC T4Gc X,[ExiaDa] IIIC X)
INMETRO TÜV Rheinland do Brasil Ltda.	-	TÜV_14.1911_X
IECEx	TUEV Nord TUEV Nord Cert GmbH	IEC 60079 IECEx TUN 12.0039X (Ex ec[iaGa] IIC T4 Gc, [Ex iaDa] IIIC, [Ex iaMa] I)
UL Underwriters Laboratories Inc. (HAZARDOUS LOCATIONS)	UL 121201	E198726 Sec.1

Approvals for functional safety

Logo	Approval	Additional Approval Text	Certificate name
Prod. Safety, Funct. Safety TUEV Rheinland Industrie Service GmbH	-		No. 968_FSP 2387_00_22

Optional accessories

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
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

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

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"; www.wago.com/210-112; silver-colored

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"; www.wago.com/210-115; silver-colored

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

Marking accessories

Marker carrier



Item no.: 750-103

Group marker carrier

www.wago.com/750-103

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



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](http://www.wago.com/000-002)



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](http://www.wago.com/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](http://www.wago.com/000-005)

Item no.: 2009-145/000-012

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

WAGO GmbH & Co. KG

Hansastraße 27

32423 Minden

Phone: +49 571 887-0 | Fax: +49 571 887-169

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.

 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](http://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](http://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

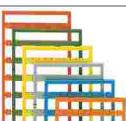
[www.wago.com/2009-145
/000-024](http://www.wago.com/2009-145/000-024)



Item no.: 248-501/000-006

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

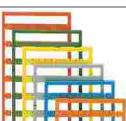
[www.wago.com/248-501
/000-006](http://www.wago.com/248-501/000-006)



Item no.: 248-501/000-007

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

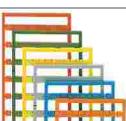
[www.wago.com/248-501
/000-007](http://www.wago.com/248-501/000-007)



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](http://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](http://www.wago.com/248-501/000-012)



Item no.: 248-501

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

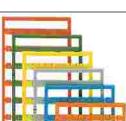
www.wago.com/248-501



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](http://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](http://www.wago.com/248-501/000-005)



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](http://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](http://www.wago.com/248-501/000-023)

Group marker carrier

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

WAGO GmbH & Co. KG

Hansastraße 27

32423 Minden

Phone: +49 571 887-0 | Fax: +49 571 887-169

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 no.: 750-107
Group marker carrier

www.wago.com/750-107

Shield termination

Shield clamping saddles		
 Item no.: 790-116	Shield clamping saddle; 19 mm wide; diameter of compatible conductor; 7 ... 16 mm	www.wago.com/790-116
 Item no.: 790-124	Shield clamping saddle; 27 mm wide; diameter of compatible conductor; 6 ... 24 mm	www.wago.com/790-124
 Item no.: 790-108	Shield clamping saddle; 11 mm wide; diameter of compatible conductor; 3 ... 8 mm	www.wago.com/790-108
 Item no.: 790-140	Shield clamping saddle; diameter of compatible conductor	www.wago.com/790-140
 Item no.: 790-216	Shield clamping saddle; 21.8 mm wide; 6 ... 16 mm	www.wago.com/790-216
 Item no.: 790-220	Shield clamping saddle; 30 mm wide; 6 ... 20 mm	www.wago.com/790-220
 Item no.: 790-208	Shield clamping saddle; 12.4 mm wide; 3 ... 8 mm	www.wago.com/790-208

Supply module

Supply module		
 Item no.: 750-625/000-001	Power Supply; 24 VDC; Intrinsically safe	www.wago.com/750-625/000-001
 Item no.: 750-606	Power Supply; 24 VDC; Diagnostics; Intrinsically safe	www.wago.com/750-606

Downloads

Documentation

Data sheet

750-663/000-003, 4F Ex i DI 24V PROFIsafe V2 iPar, data sheet	pdf 470.3 kB	Download
---	-----------------	----------

Manual

System Manual WAGO I/O System 750/753 Decentralized Automation Technology	V 3.3.0 2023 May 4	pdf 8.8 MB	Download
--	-----------------------	---------------	----------

Product Manual 4-channel, Ex i, 24 V, PROFIsafe V2 iPar

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

with inputs for functional safety	V 1.7.0	pdf 5.3 MB	Download
-----------------------------------	---------	---------------	--------------------------

System Manual Series 750/753	URL	Download
Online HTML		

Bid Text			
-----------------	--	--	--

750-663/000-003	2019 Feb 19	xml 8.0 kB	Download
X81 - Datei			

750-663/000-003	2017 Oct 9	doc 33.3 kB	Download
doc - Datei			

Instruction Leaflet			
----------------------------	--	--	--

CCC Ex (Additional information)	2023 Apr 26	pdf 147.4 kB	Download
WAGO-I/O-SYSTEM 750-*** Ex i			

Gebrauchs- und Montageanleitung	pdf 1.6 MB	Download
Sicherheitsklemmen PROFIsafe, Ex i		

System Description			
---------------------------	--	--	--

Ex i Overview	pdf 452.7 kB	Download
---------------	-----------------	--------------------------

Functional Safety – General Product Information	pdf 223.0 kB	Download
---	-----------------	--------------------------

Overview on WAGO-I/O-SYSTEM 750 approvals	pdf 789.0 kB	Download
---	-----------------	--------------------------

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

Additional Information			
-------------------------------	--	--	--

Disposal and Recycling	V 1.1.0	pdf 2.2 MB	Download
Electrical and electronic equipment, Batteries, Packaging	2022 Aug 18		

Application Notes			
--------------------------	--	--	--

Application note SIEMENS			
---------------------------------	--	--	--

Using iPar-Server option with WAGO PROFIsafe modules (a114802)	V 14.1	zip	Download
--	--------	-----	--------------------------

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

WAGO GmbH & Co. KG Hansastraße 27 32423 Minden Phone: +49 571 887-0 Fax: +49 571 887-169 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.
--	--

Use of WAGO PROFIsafe modules generation 3 and generation 4 in combination under Siemens safety controllers with technologies iPar-Server and TCI.

2023 Feb 7

99.8 MB

New version recommended for use with PROFIsafe modules generation 4.

Supported surfaces TIA V15.1, V16, V17 and V18 in combination with CPU1xxF.

Step 7 Classic version available at WAGO IO-Support.

Libraries

SISTEMA library

SISTEMA-Bibliothek	2.08 2022 Jun 2	zip 204.1 kB	Download
VDMA-Bibliothek	0.0.11 2022 May 11	zip 411.7 kB	Download

Engineering-Software

Configuration and Commissioning Software

Safety Editor (SEDI) / 750-66x	3.5.0.0 2022 Dec 13	zip 19.5 MB	Download
--------------------------------	------------------------	----------------	----------

CAD/CAE-Data

CAD data

2D/3D Models 750-663/000-003	URL	Download
------------------------------	-----	----------

CAE data

EPLAN Data Portal 750-663/000-003	URL	Download
WSCAD Universe 750-663/000-003	URL	Download
ZUKEN Portal 750-663/000-003	URL	Download
EPLAN Data Portal 750-663/000-003	URL	Download

WSCAD Universe 750-663/000-003

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

Installation Notes

Product family

WAGO I/O System 750/753

[Show all products from the family](#)

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

WAGO GmbH & Co. KG

Hansastra. 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.