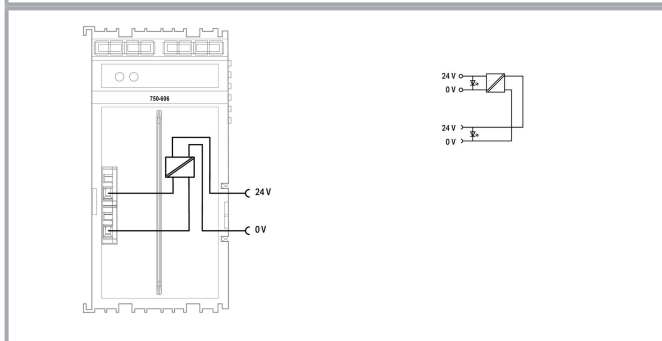
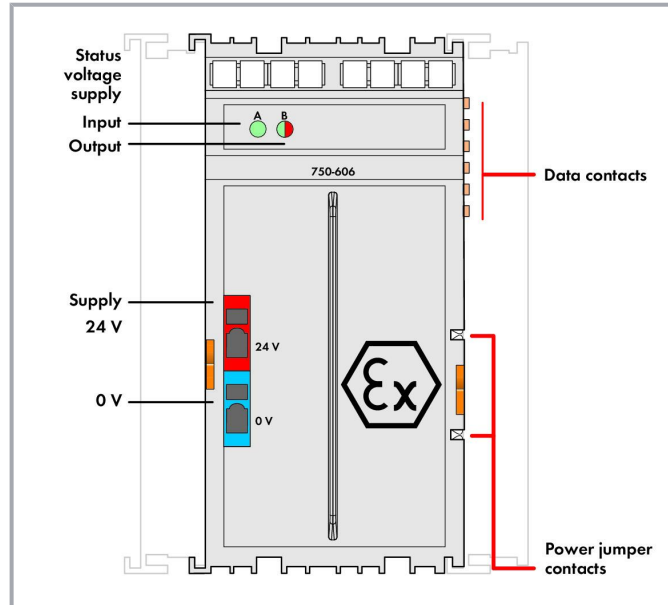
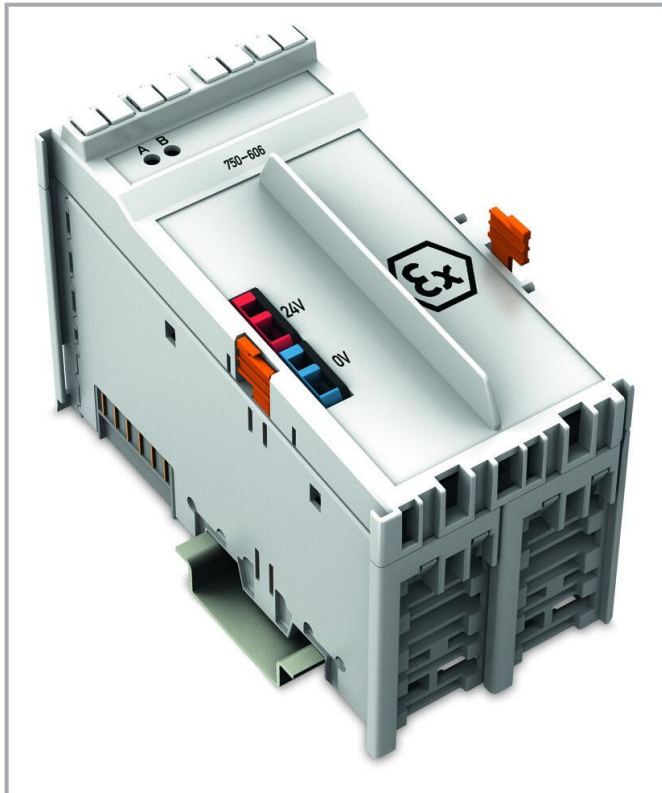


Data sheet | Item number: 750-606

Power Supply; 24 VDC; Diagnostics; Intrinsically safe

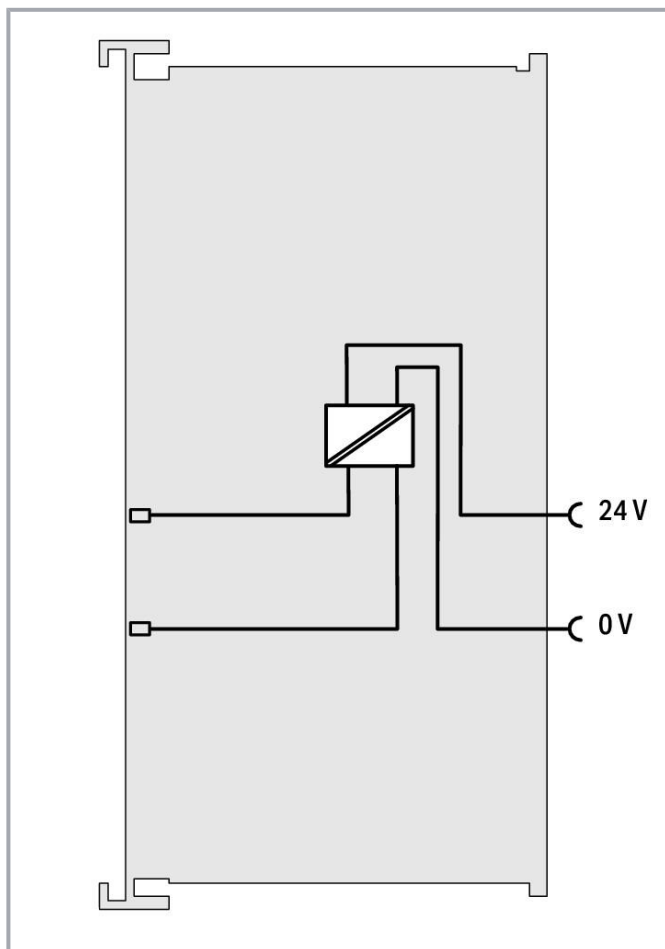
www.wago.com/750-606



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

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Item description

This supply module powers all intrinsically safe 750 Series Ex i Modules. It also monitors the power supply to the downstream Ex i segment and separates the intrinsically safe from the non-intrinsically safe section of the WAGO I/O System 750. The input and output sides are electrically isolated from each other.

The maximum current provided by the supply module is 1.0 A. When configuring the Ex i segment, the total current must not be exceeded.

In the event of a short circuit or overload, electronic monitoring automatically switches off the output voltage. After eliminating the fault, the output voltage is reactivated within approximately ten seconds.

If, due to load conditions, more than one supply module is required per station, four distance modules (750-616) must be placed between the intrinsically safe sections.

Indicators:

- Green LED (input voltage)
- Green/red LED (output voltage available/not available)

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



Data Notes

Note

General information (e.g., installation regulations) on explosion protection is available in the WAGO I/O System 750 manuals!

Technical data

Input voltage (note)	24 VDC (-25 % ... +30 %)
Diagnostics	Input voltage failure, fuse triggered
Fuse	electronic
Power consumption $P_{\max.}$	29 W
Data width	2 bits (input voltage failure, fuse triggered)
Intrinsic safety Ex i	yes
Supply voltage (system)	5 VDC; via data contacts
Current consumption (5 V system supply)	7.5 mA
Supply voltage (field)	24 VDC (-25 % ... +30 %); (Adjacent Ex i modules are supplied with $U_O = \max. 27.3 \text{ V}$); via power jumper contacts (power supply via CAGE CLAMP® connection; transmission via spring contact)
Supply voltage	24 VDC; (-25 % ... +30 %); Input voltage
Power loss P_I	< 5 W
Indicators	LED (A) green: Status voltage supply: Input; LED (B) green/red: Status voltage supply: Output
Number of outgoing power jumper contacts	2
Current carrying capacity (power jumper contacts)	1 A
Marking	ATEX/IECEx: II 3G Ex ec IIC T4 Gc

Explosion protection

Ex standard	EN IEC 60079-0, -7, -11
Power supply (output)	$U_O = 26.8 \text{ V}$ (safe voltage per IEC 60079-11, protection level ia); $U_n = 24 \text{ V} \pm 0.3 \text{ V}$, $I_n = 1 \text{ A}$
Power supply (input)	$U_n = 24 \text{ VDC}$ (-25 % ... +30 %); $P_{\max.} = 29 \text{ W}$; $U_m = 253 \text{ V}$

Connection data

Connection technology: field supply

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



	2 x CAGE CLAMP®
Connection type 1	Field supply
Solid conductor	0.08 ... 1.5 mm² / 28 ... 14 AWG
Fine-stranded conductor	0.08 ... 1.5 mm² / 28 ... 14 AWG
Strip length	5 ... 6 mm / 0.2 ... 0.24 inches

Physical data

Width	48 mm / 1.89 inches
Height	100 mm / 3.937 inches
Depth	70.9 mm / 2.791 inches
Depth from upper-edge of DIN-rail	63.7 mm / 2.508 inches

Mechanical Data

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

Material data

Housing material	Polycarbonate; polyamide 6.6
Fire load	2.599 MJ
Weight	167.5 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

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

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Permissible SO₂ contaminant concentration at a relative humidity 75 25 ppm
%

Commercial data

Product Group	15 (I/O System)
eCl@ss 10.0	27-24-26-10
eCl@ss 9.0	27-24-26-10
ETIM 8.0	EC001600
ETIM 7.0	EC001600
Recupel Type	
PU (SPU)	1 pcs
Packaging type	box
Country of origin	DE
GTIN	4045454961909
Customs tariff number	85389091890

Environmental Product Compliance

RoHS Compliance Status	Compliant, No Exemption
SCIP notification number (Austria)	c0e961b9-f5ee-4b65-a1a8-472aee7a2b4c
SCIP notification number (Belgium)	9a9fbad1-2151-4ca2-aec5-25ab8f123037
SCIP notification number (Bulgaria)	ed072b21-fb78-4134-9934-dfa4a6dc0ef4
SCIP notification number (Czech Republic)	266c66db-8acb-4f00-bf69-094ee6553caa
SCIP notification number (Denmark)	350710b9-e9a4-4603-aaf5-169b93ff0e77
SCIP notification number (Finland)	8ff26ff3-9f09-4bb8-aedc-18be5f80fba7
SCIP notification number (France)	8535d1d5-e475-4e2e-a292-5ec098a62a8b
SCIP notification number (Germany)	8624e861-a34f-472f-901f-a8b55966be77
SCIP notification number (Hungary)	a933bfdc-ce3e-40d2-95cd-93c13d3796c4
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SCIP notification number (Poland)	25b955c9-d2f8-4744-b703-a5b0acbd030b
SCIP notification number (Romania)	737c4cd0-1a61-4064-827d-49007a2f8b50
SCIP notification number (Sweden)	a8f2598e-8225-4e57-84ed-8ccaa13ba2aa

Notes

Note

General information (e.g., installation regulations) on explosion protection is available in the WAGO I/O System 750 manuals!

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

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Explosion protection

Marking	ATEX/IECEx: II 3G Ex ec IIC T4 Gc
Power supply (output)	
Power supply (input)	

Technical data

Order Text	Power Supply; 24 VDC; Diagnostics
Supply voltage	24 VDC; (-25 % ... +30 %); input voltage
Fuse	
Intrinsic safety Ex i	
Diagnostics	
Data width	
Supply voltage (field)	
Power consumption P_{max}	
Power loss P_I	
Indicators	LED (A) green: operating voltage status: input; LED (B) green/red: operating voltage status: output

Mechanical data

Mounting type	
---------------	--

Environmental requirements

Ambient temperature (operation)	0 ... +55 °C
Ambient temperature (storage)	-25 ... +85 °C
Pollution degree	
Operating altitude	
Mounting position	
Vibration resistance	
EMC immunity to interference	
EMC emission of interference	
Exposure to pollutants	

Connection data

Connection type 1	
-------------------	--

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

Commercial data

Packaging type

Approvals / Certificates

General approvals

Logo	Approval	Additional Approval Text	Certificate name
	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-SPP750
	UL Underwriters Laboratories Inc. (ORDINARY LOCATIONS)	UL 61010-2-201	E175199
	UL Underwriters Laboratories Inc. (ORDINARY LOCATIONS)	-	E175199

Declarations of conformity and manufacturer's declarations

Logo	Approval	Additional Approval Text	Certificate name
	EU-Ex-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
	BV Bureau Veritas S.A.	-	30389/C0 BV

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DNV
DNV GL SE

DNV-CG-0339, Aug. 2021

TAA0000194



KR
Korean Register of Shipping

-

KR HMB05880-
AC001



LR
Lloyds Register EMEA

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LR22180952TA



PRS
Polski Rejestr Statków

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TE/2236/880590
/19

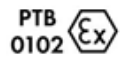


RINA
RINA Germany GmbH

-

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	TUEV_12_ATEX_106032X (Ex ec[iaGa] IIC T4 Gc, [Ex iaDa] IIIC, [Ex iaMa] I)
	CCC CNEX	CNCA-C23-01	2020312310000211 (Ex ec IIC T4 Gc)
	EAC Brjansker Zertifizierungsstelle	TP TC 012/2011	EAC RU C-DE.AM02.B. 00163/19 (2Ex e IIC T4 Gc X)
	INMETRO TÜV Rheinland do Brasil Ltda.	-	TÜV_14.1911_X
	KTL	KOSHA Article 34, IEC60079-0	20-KA4BO-0093X

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Korea Testing Laboratory



UL
Underwriters Laboratories Inc. (HAZARDOUS
LOCATIONS)

UL 121201

E198726 Sec.1

Optional accessories

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

/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

**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

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**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**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

Group marker carrier

**Item no.: 750-106**

Group marker carrier

www.wago.com/750-106**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**

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

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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

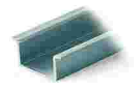
www.wago.com/210-504



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



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

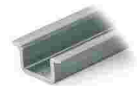
www.wago.com/210-508



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

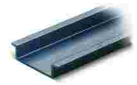
www.wago.com/210-114



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

Tool

Operating tool



Item no.: 210-719

Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft

www.wago.com/210-719

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

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

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	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

Downloads

Documentation

Data sheet

750-606, 24VDC 1.0A Ex i Power Supply, data sheet	pdf 132.8 kB	Download
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Manual

System Manual WAGO I/O System 750/753 Decentralized Automation Technology	V 3.3.3 2023 Aug 29	pdf 8.7 MB	Download
Product Manual 24VDC 1.0A Ex i power supply	V 1.4.0 2021 Jun 16	pdf 1.4 MB	Download
System Manual Series 750/753 Online HTML		URL	Download

Bid Text

750-606 X81 - Datei	2019 Feb 19	xml 5.6 kB	Download
750-606 doc - Datei	2017 Oct 6	doc 29.2 kB	Download

Instruction Leaflet

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

750/753 Series I/O-System – General Product Information	pdf 976.2 kB	Download
Overview on WAGO-I/O-SYSTEM 750 approvals	pdf 223.5 kB	Download
Ex i Overview	pdf 233.9 kB	Download

Additional Information

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

CAD/CAE-Data

CAE data

WSCAD Universe 750-606	URL	Download
ZUKEN Portal 750-606	URL	Download
EPLAN Data Portal 750-606	URL	Download

CAD data

2D/3D Models 750-606	URL	Download
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Asset Administration Shell

Asset Administration Shell 750-606	URL	Download
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Device Files

Device Driver

WAGO USB Service Kabel Treiber / Serie 750 und 857	6.5.3.0 2014 Sep 10	zip 4.8 MB	Download
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Installation Notes

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Product family

WAGO I/O System 750/753

[Show all products from the family](#)

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