TECHDOCS

WAGO I/O System 750/753

Supply Filter; 24 VDC; higher isolation

750-626/020-000; 750-626/025-001

Product manual
Valid as of HW version 03 | FW version --
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Every conceivable measure has been taken to ensure the accuracy and completeness of this documentation. However, as errors can never be fully excluded, we always appreciate any information or suggestions for improving the documentation.

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1 Provisions

1.1 Scope of Applicability

This document applies to the following products:

750-626/020-000 (24V DC Supply Filter (Surge) /HI) Supply Filter; 24 VDC; higher isolation.

From hardware version	03
From firmware version	--
Product detail page	www.wago.com/750-626/020-000

750-626/025-001 (24V DC Supply Filter (Surge) /HI /T) Supply Filter; 24 VDC; higher isolation; ext. temperature

From hardware version	02
From firmware version	--
Product detail page	www.wago.com/750-626/025-001

ⓘ Note

Note applicable documents!

The complete operating instructions for the products consist of several applicable documents. The products must only be installed and operated in accordance with the complete operating instructions. Knowledge of all applicable documents is required for proper use. Please find all documents and information on the detailed product pages.

Applicable document

🕮 System Manual I/O System 750/753

- Provisions
- Safety
- Planning
- Transport and Storage
- Assembly and Disassembly
- Conductor Termination
- Decommissioning

2 Overview

The supply filter module is used to provide both the 24 V system voltage and 24 V field supply voltage to a fieldbus node.
It contains a filter for the 24 V system supply and protection against transient overvoltages for the system supply and field supply via the power jumper contacts.

This version of the filter module is optimized for use in systems with insulation monitoring.

Use of filter modules also allows the WAGO I/O System 750/753 to be used in shipbuilding or offshore/onshore areas (e.g., platforms and loading facilities). This is demonstrated by compliance with the requirements of leading classification agencies, such as the Germanischer Lloyd and Lloyd's Register. The filter module ensures proper (certified) system operation.

The filter module has no blade contacts to receive a supply voltage; it is powered by an external source via CAGE CLAMP® connections.
The filter module provides the 24 V field supply voltage for the field level to downstream I/O modules via its spring contacts. The 24 V supply voltage for the system supply is provided via CAGE CLAMP® connections.

Two green status LEDs indicate the status of the power supply for the system supply and field supply, respectively.

This variant is NOT intended for marine-certified operation in conjunction with an Ex i supply module (item no.: 750-625/000-001) or for use with PROFIsafe modules!

3 Properties

3.1 View

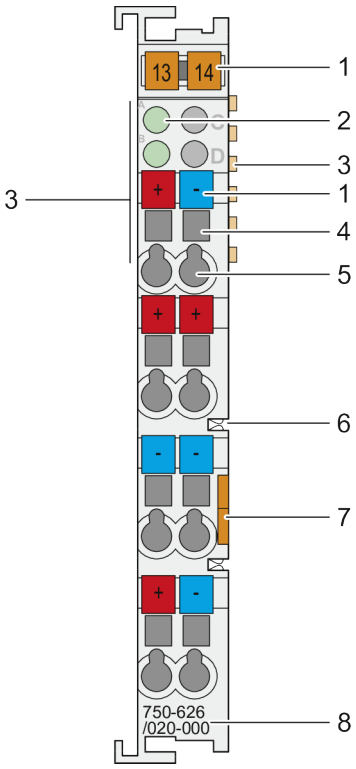

Figure 1: View

1	Slot for Mini-WSB (optional)	🕮 System Manual I/O System 750/753
2	Status LEDs	Indicators [▸ 7]
3	Data contacts	🕮 System Manual I/O System 750/753
4	Access to open the associated CAGE CLAMP® connection	🕮 System Manual I/O System 750/753
5	CAGE CLAMP® connection	Wiring Interface [▸ 7] and 🕮 System Manual I/O System 750/753
6	Power jumper contacts (spring)	Power Jumper Contacts [▸ 8] and 🕮 System Manual I/O System 750/753
7	Release tab	🕮 System Manual I/O System 750/753
8	Item number	Scope of Applicability [▸ 4]

3.2 Indicators

Two green status LEDs indicate the status of the power supply for the system supply and field supply, respectively.

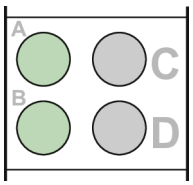

Figure 2: Indicators

Name	LED	Status	Function
Status of the operating voltage – System supply	A	Off	No 24 V operating voltage for the system supply
		Green	24 V operating voltage available for the system supply
Status of the operating voltage – Power jumper contacts	B*)	Off	No 24 V operating voltage at the power jumper contacts
		Green	24 V operating voltage applied to the power jumper contacts

*) LED position is production-dependent; up to hardware 02: LED C

3.3 Wiring Interface

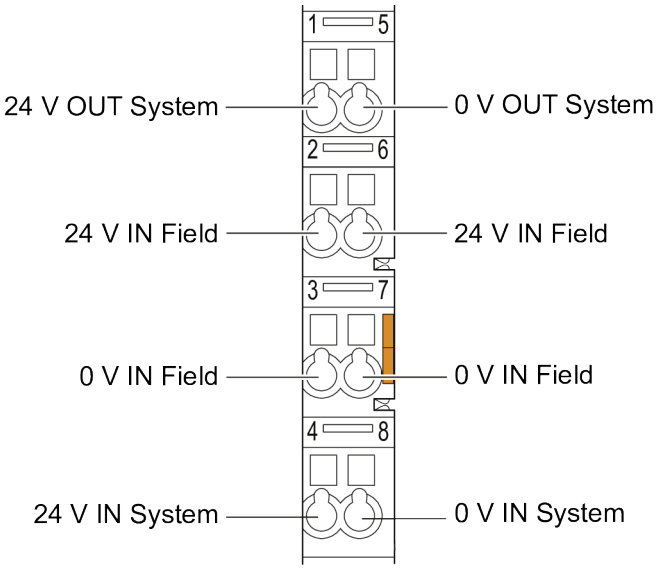

Figure 3: CAGE CLAMP® Connections

Designation	Connection	Function
24 V OUT, system	1	Output, system supply, 24 V (filtered)
0 V OUT, system	5	Output, system supply, 0 V (filtered)
24 V IN, field	2	Feed-in, field supply, 24 V
	6	
0 V IN, field	3	Feed-in, field supply, 0 V
	8	
24 V IN, system	4	Feed-in, system supply, 24 V
0 V IN, system	8	Feed-in, system supply, 0 V

3.4 Power Jumper Contacts

The potential for the field supply is fed in via the spring contacts.

For additional information on the Power Jumper Contacts, please see 🕮 **System Manual I/O System 750/753**.

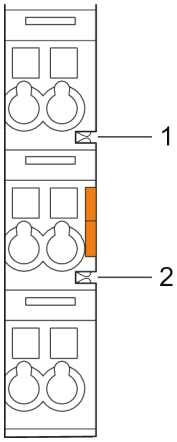

Figure 4: Power Jumper Contacts

Pos.	Type
1	Groove with spring contact
2	

Arrangement in the Bus Node

For electrical compatibility requirements see Section **Schematic Circuit Diagram [▸ 9]**.

3.5 Schematic Circuit Diagram

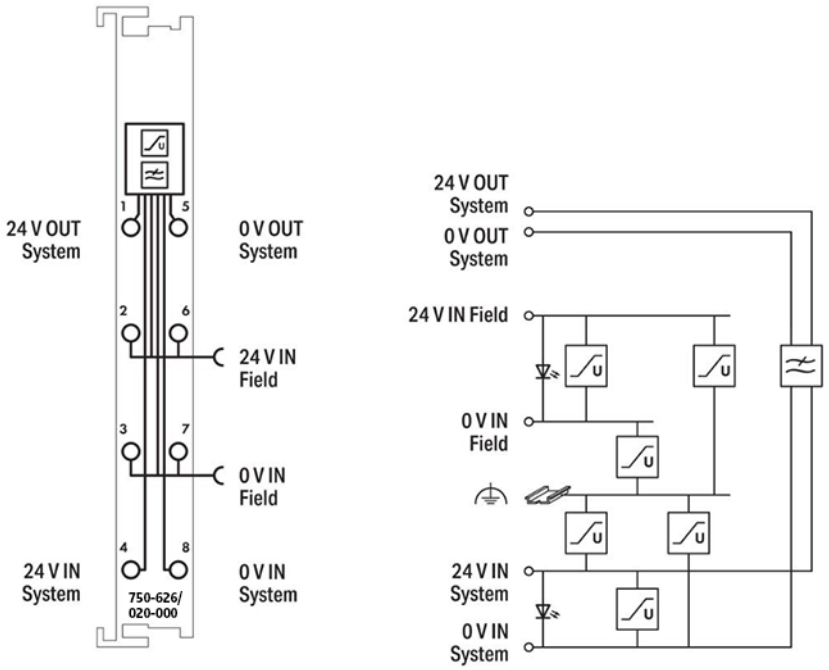

Figure 5: Schematic Circuit Diagram

4 Planning

This section provides helpful information for planing the use of the product in a node.

4.1 Compatibility

The filter module can be operated on all head stations of the WAGO I/O System 750/753.

4.2 Requirements for Wiring and Accessories

This version of the filter module is optimized for use in systems with insulation monitoring.

This variant is NOT intended for marine-certified operation in conjunction with an Ex i supply module (item no.: 750-625/000-001) or for use with PROFIsafe modules!

For power supply concepts and the node structure, e.g., for certified operation of the filter module in shipbuilding or onshore/offshore applications, see the System Manual I/O System 750/753.

5 Appendix

5.1 Technical Data, Approvals, Guidelines and Standards

Note

Subject to changes!

Please also observe the further product documentation! You can generate the current datasheet at any time at: www.wago.com /<item number>.

See also

- Data sheet 750-626/020-000 [▸ 12]
- Data sheet 750-626/025-001 [▸ 15]

Data Sheet | Item Number: 750-626/020-000
Supply Filter; 24 VDC; Higher isolation
https://www.wago.com/750-626/020-000

Technical data

Signal type	Voltage
Signal type (voltage)	24 VDC
Supply voltage (system)	24 VDC (-25 … +30 %); via pluggable connector (CAGE CLAMP® connection)
Supply voltage (field)	24 VDC (-25 … +30 %); via power jumper contacts (power supply via CAGE CLAMP® connection; transmission (field-side supply voltage only) via spring contact
Current via system voltage (max.)	1.5 A (1 A up to hardware version 04)
Current carrying capacity (power jumper contacts)	10 A
Number of outgoing power jumper contacts	2
Use	Marine-certified operation in conjunction with 750 Series Couplers and Controllers
Indicators	LED (A, B) green: operating voltage status: system, power jumper contacts

Connection Data

Connectable conductor materials	Copper
Connection type	System/field supply
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 technology: field supply	4 x CAGE CLAMP®
Connection technology: system supply	4 x CAGE CLAMP®

Physical data

Width	12 mm / 0.472 inches
Height	100 mm / 3.937 inches
Depth	69.8 mm / 2.748 inches
Depth from upper-edge of DIN-rail	62.6 mm / 2.465 inches

Mechanical data

Mounting type	DIN-35 rail
Pluggable connector	fixed

Material data

Housing material	Polycarbonate; polyamide 6.6
Fire load	0.782 MJ
Weight	49.4 g
Conformity marking	CE

Environmental requirements

Ambient temperature (operation)	0 … +55 °C
Ambient temperature (storage)	-40 … +85 °C
Protection type	IP20
Pollution degree	2 per IEC 61131-2
Operating altitude	0 … 2000 m / 0 … 6562 ft
Mounting position	Horizontal left, horizontal right, horizontal top, horizontal bottom, vertical top and vertical bottom
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_2S contaminant concentration at a relative humidity 75 %	10 ppm
Permissible SO_2 contaminant concentration at a relative humidity 75 %	25 ppm

Product Classification

UNSPSC	39121610
eCl@ss 10.0	27-24-26-10
eCl@ss 9.0	27-24-26-10
ETIM 9.0	EC001600
ETIM 10.0	EC001600
ECCN	NO US CLASSIFICATION

Environmental Product Compliance

CAS-No.	1303-86-2 1317-36-8 7439-92-1
REACH Candidate List Substance	Diboron trioxide Lead Lead monoxide
RoHS Compliance Status	Compliant,With Exemption
RoHS Exemption	7(a) 7(c)-I
SCIP notification number (Austria)	1cf94fcd-bc78-4aec-b284-9c2f0258f1f1
SCIP notification number (Belgium)	8eec1dc9-bc59-4e93-8ce2-b8d514a976fa
SCIP notification number (Bulgaria)	930d8197-df91-4a77-8755-c564ebb2cc7a
SCIP notification number (Czech Republic)	365e8775-12c2-40bd-ae17-426286de98eb
SCIP notification number (Denmark)	8218b100-8668-4a24-9b08-9fd64a02a373
SCIP notification number (Finland)	b7d3542e-15e2-46ee-a59f-69dcb16fab4c
SCIP notification number (France)	bbfc94f8-c49e-4cdc-aa64-7df2d60dc8b0
SCIP notification number (Germany)	ecbe7cf5-102d-4b21-8d72-eaa4374ca03e
SCIP notification number (Hungary)	6f9fa80b-bd9c-47f4-9771-d47f15df8090
SCIP notification number (Italy)	ffa3a418-ba51-47fc-8cb6-3798e0d7a271
SCIP notification number (Netherlands)	949f8731-e9b4-4d59-8641-c6607a0af3b3
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SCIP notification number (Romania)	ebf7c9c3-99da-416a-aa79-04999d0d5cd5
SCIP notification number (Sweden)	83eb7a98-5339-4350-b3ef-2a76c4d56389

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Approvals / Certificates

General approvals

Approval	Standard	Certificate Name
EAC GZO Almaty Standart	TP TC 020/2011	EAC CoC 03083
KC National Radio Research Agency	Article 58-2, Clause 3	MSIP-REM-W43-IDE750
UL Underwriters Laboratories Inc. (ORDINARY LOCATIONS)	UL 508	E175199

Declarations of conformity and manufacturer's declarations

Approval	Standard	Certificate Name
EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-
UK-Declaration of Conformity WAGO GmbH & Co. KG	-	-

Approvals for marine applications

Approval	Standard	Certificate Name
ABS American Bureau of Shipping	-	22-2219060
BSH Bundesamt fuer Seeschifffahrt und Hydrographie	-	1104
BV Bureau Veritas S.A.	-	30389/C0 BV
DNV DNV GL SE	DNV-CG-0339,Aug.2021	TAA0000194
KR Korean Register of Shipping	-	KR HMB05880-AC001
LR Lloyds Register EMEA	-	LR22180952TA
NK Nippon Kaiji Kyokai	Guidel. Perform. Type Approvals	TA25276M
PRS Polski Rejestr Statków	-	TE/1101/880590/23
RINA RINA Germany GmbH	-	ELE343521XG001

Approvals for hazardous areas

Approval	Standard	Certificate Name
ATEX TUEV Nord Cert GmbH	EN 60079-0	TUEV14ATEX148929X (II 3 G Ex ec IIC T4 Gc)
CCCEx CQST/CNEx	CNCA-C23-01	2020312310000213 (Ex ec IIC T4 Gc)
IECEx TUEV Nord Cert GmbH	IEC 60079-0	IECEx TUN 14.0035 X (Ex ec IIC T4 Gc)
INMETRO TÜV Rheinland do Brasil Ltda.	IEC 60079-0	TÜV 12.1297 X
KTL Korea Testing Laboratory	KOSHA Article 34, IEC60079-0	21-KA4BO-0554X
UKEx WAGO GmbH & Co. KG	EN 60079-0	UKCA_WA GO22UKEX003X_ec
UL Underwriters Laboratories Inc. (HAZARDOUS LOCATIONS)	UL 121201	E198726

Data Sheet | Item Number: 750-626/025-001

Supply Filter; 24 VDC; Higher isolation; Ext. Temperature

https://www.wago.com/750-626/025-001

Technical data

Signal type	Voltage
Signal type (voltage)	24 VDC
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Current via system voltage (max.)	1.5 A (1 A up to hardware 04)
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Use	Marine-certified operation in conjunction with 750 Series Couplers and Controllers
Indicators	LED (A, B) green: operating voltage status: system, power jumper contacts

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Connectable conductor materials	Copper
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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 technology: field supply	4 x CAGE CLAMP®
Connection technology: system supply	4 x CAGE CLAMP®

Physical data

Width	12 mm / 0.472 inches
Height	100 mm / 3.937 inches
Depth	69.8 mm / 2.748 inches
Depth from upper-edge of DIN-rail	62.6 mm / 2.465 inches

Mechanical data

Mounting type	DIN-35 rail
Pluggable connector	fixed

Material data

Color	light gray
Housing material	Polycarbonate; polyamide 6.6
Fire load	0.767 MJ
Weight	50 g
Conformity marking	CE

Continued on next page

Environmental requirements

Ambient temperature (operation)	-20 … +60 °C
Ambient temperature (storage)	-40 … +85 °C
Protection type	IP20
Pollution degree	2 per IEC 61131-2
Operating altitude	0 … 2000 m / 0 … 6562 ft
Mounting position	Horizontal left, horizontal right, horizontal top, horizontal bottom, vertical top and vertical bottom
Relative humidity (without condensation)	95 %
Relative humidity (with condensation)	Short-term condensation per Class 3K6/IEC EN 60721-3-3 and E-DIN 40046-721-3, accounting for a temperature range of −20 to +60 °C (except for wind-driven precipitation, water and ice formation)
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 61000-6-4, marine applications
Exposure to pollutants	per IEC 60068-2-42 and IEC 60068-2-43
Permissible H_2S contaminant concentration at a relative humidity 75 %	10 ppm
Permissible SO_2 contaminant concentration at a relative humidity 75 %	25 ppm

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SCIP notification number (Bulgaria)	6f0b91d2-8114-4468-9d34-8a94cc981cda
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SCIP notification number (Romania)	2c103830-0440-42a0-9aee-fc6f8b358f09
SCIP notification number (Sweden)	40f355d1-8d10-4f5b-85b7-b502e76766ab

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BSH Bundesamt fuer Seeschifffahrt und Hydrographie	-	1104
DNV DNV Germany GmbH	DNV-CG-0339,Aug.2021	TAA00001J4
LR Lloyds Register	-	LR2475997TA
PRS Polski Rejestr Statków	-	TE/1102/880590/23

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CCCEx CQST/CNEx	CNCA-C23-01	2020312310000213 (Ex ec IIC T4 Gc)
IECEx TUEV Nord Cert GmbH	IEC 60079-0	IECEx TUN 14.0035 X (Ex ec IIC T4 Gc)
INMETRO TÜV Rheinland do Brasil Ltda.	IEC 60079-0	TÜV 12.1297 X
UKEx WAGO GmbH & Co. KG	EN 60079-0	UKCA_WA GO22UKEX003X_ec
UL Underwriters Laboratories Inc. (HAZARDOUS LOCATIONS)	UL 121201	E198726

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