

## Data sheet | Item number: 750-624/020-002

Filter module for field-side power supply (surge); 24 VDC; Higher isolation;  
Ground Fault Diagnostics

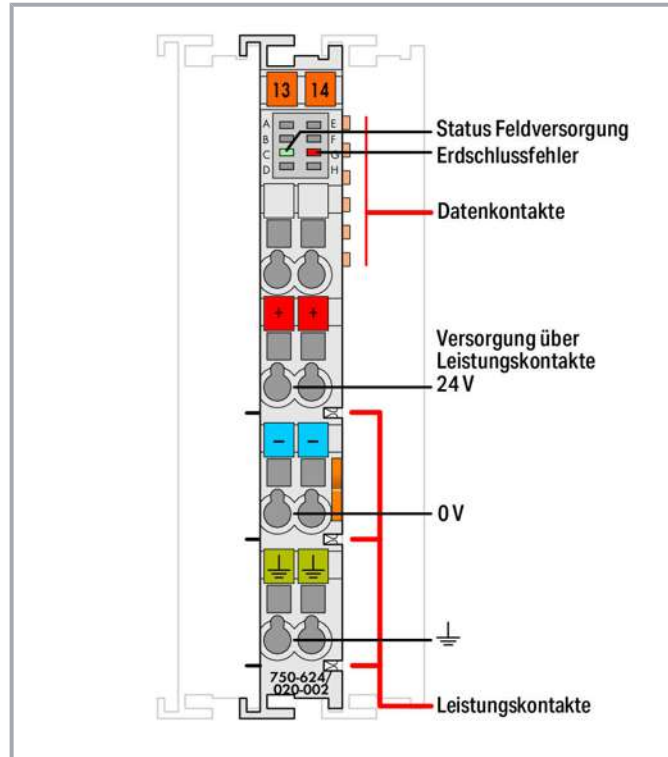
[www.wago.com/750-624\\_020-002](http://www.wago.com/750-624_020-002)



RoHS   
Compliant

BOMcheck.net

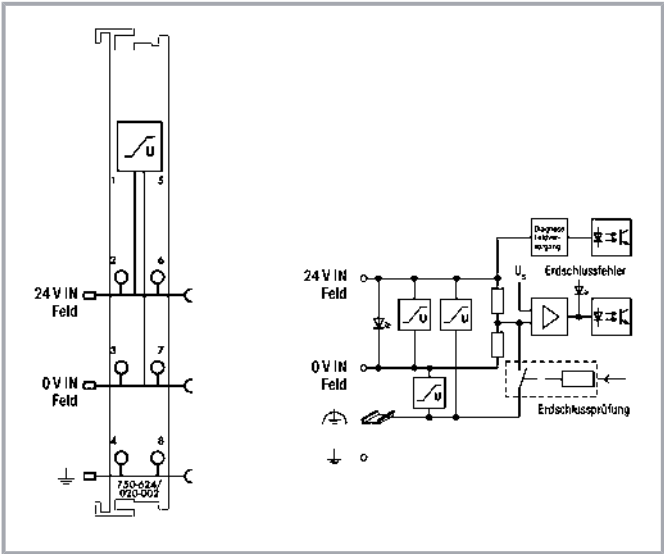
Color:



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

WAGO Corporation  
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Item description

The WAGO I/O System 750 can also be used in marine applications and onshore/offshore installations (e.g., platforms, loading facilities). This is possible via certification under the standards of leading agencies such as Germanischer Lloyd and Lloyd's Register. This overvoltage protection module ensures proper (certified) system operation. The module protects against high-energy disturbances on DC supply lines due to switching overvoltages caused by inductive loads. It contains transient protection for the field supply and is streamlined for use in systems with insulation monitoring. In addition, it offers the possibility of a ground fault test.

750-624/020-002: Required for marine-certified operation with 750 Series I/O Modules as soon as an additional 24 VDC field supply is required in a station.

Indicators:  
LED (green): Power supply is available;  
LED (red): Ground fault

Ground fault diagnostics (response values):

- Pre-alarm 50 kΩ (±15 %)
- Main alarm 25 kΩ (±15 %)
- Hysteresis (typ.) 25 ... 30 %
- Response time ≤ 5 s (typ. 2.5 s)
- Internal resistance DC (test circuit) >10 MΩ (test inactive), >90 kΩ (test active)
- Test current ≤180 μA (RF=0 Ω)
- Permissible system leakage capacitance ≤ 2 μF

Data  
Technical data

Signal type	Voltage
Voltage signal type	DC 24 V

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Data width	8-bit input; 8-bit output
Supply voltage (system)	5 VDC; via data contacts
Power consumption (5 V system supply)	29 mA
Supply voltage (field)	24 VDC, SELV (-25 ... +30 %); via power jumper contacts (power supply via blade contact; transmission via spring contact)
Power consumption, field supply (module with no external load)	16 mA
Number of incoming power jumper contacts	3
Number of outgoing power jumper contacts	3
Current carrying capacity (power jumper contacts)	10 A

### Connection data

Connection technology: field supply	6 x CAGE CLAMP®
Connection type (1)	Field supply
Solid conductor	0.08 ... 2.5 mm <sup>2</sup> / 28 ... 14 AWG
Fine-stranded conductor	0.08 ... 2.5 mm <sup>2</sup> / 28 ... 14 AWG
Strip length	8 ... 9 mm / 0.31 ... 0.35 inch

### Physical data

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

### Mechanical data

Mounting type	DIN-35 rail
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### Material data

Color	light gray
Housing material	Polycarbonate; polyamide 6.6
Fire load	0.877 MJ
Weight	57.7 g

### Environmental requirements

Surrounding air temperature (operation)	0 ... 55 °C
Surrounding air temperature (storage)	-40 ... 85 °C
Protection type	IP20

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Pollution degree (5)	2 per IEC 61131-2
Operating altitude	0 ... 2000 m
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

## Commercial data




Packaging type	BOX
Customs tariff number	8538901000

## Approvals / Certificates

### Ex-Approvals

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

### Ship Approvals

Logo	Approval	Additional Approval Text	Certificate name
	ABS American Bureau of Shipping	-	19- HG1821926
	DNV GL Det Norske Veritas, Germanischer Lloyd	-	TAA0000194
	LR Lloyds Register	-	02/20026 (E6)
	PRS Polski Rejestr Statków	-	TE/2236 /880590/19


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## UL-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	UL Underwriters Laboratories Inc. (ORDINARY LOCATIONS)	UL 61010-2-201	E175199 Sec10

## Downloads Documentation

### Manual

Field Supply Filter (Surge); 24 VDC; Higher Isolation; Ground Fault Diagnostics	V 1.0.0	pdf 3.4 MB	Download
Systemhandbuch WAGO I/O System 750 / 753 Dezentrale Automatisierungstechnik	V 3.0.0 2021 Mar 4	pdf 6.6 MB	Download

### Bid Text

750-624/020-002 X81 - Datei	2019 Feb 19	xml 5.1 kB	Download
750-624/020-002 doc - Datei	2019 Jan 7	doc 28.7 kB	Download

### System Description

750/753 Series I/O-System – General Product Information		pdf 1.7 MB	Download
Use in Hazardous Environments Term definition, marking and installation regulations	V 1.0.0	pdf 1.0 MB	Download
Overview on WAGO-I/O-SYSTEM 750 approvals		pdf 780.2 kB	Download

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CAD files

CAD data

2D/3D Models 750-624/020-002	URL	Download
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CAE data

ZUKEN Portal 750-624/020-002	URL	Download
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Environmental Product Compliance

Compliance Search

Environmental Product Compliance 750-624/020-002	URL	Download
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Installation Notes

Product family

Couplers & I/O modules:  
[Show all products from the family](#)

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