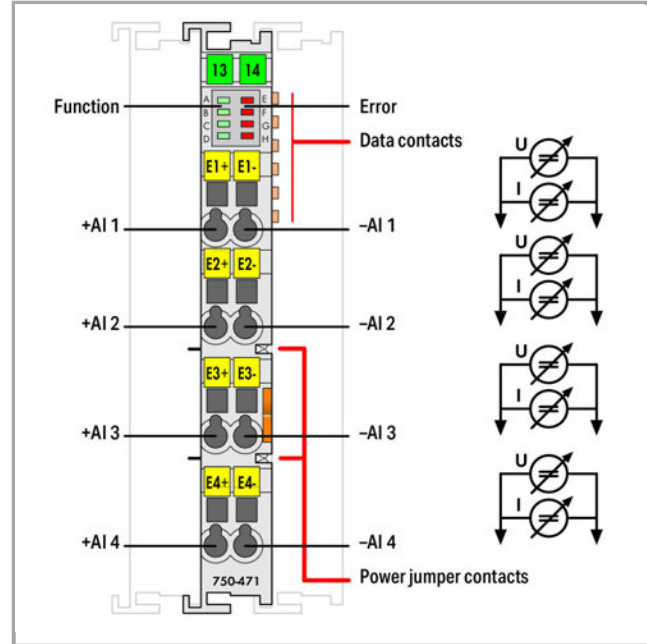


Data sheet | Item number: 750-471

4-channel analog input; Voltage/Current; Differential input; 16 bits;
Diagnostics; light gray



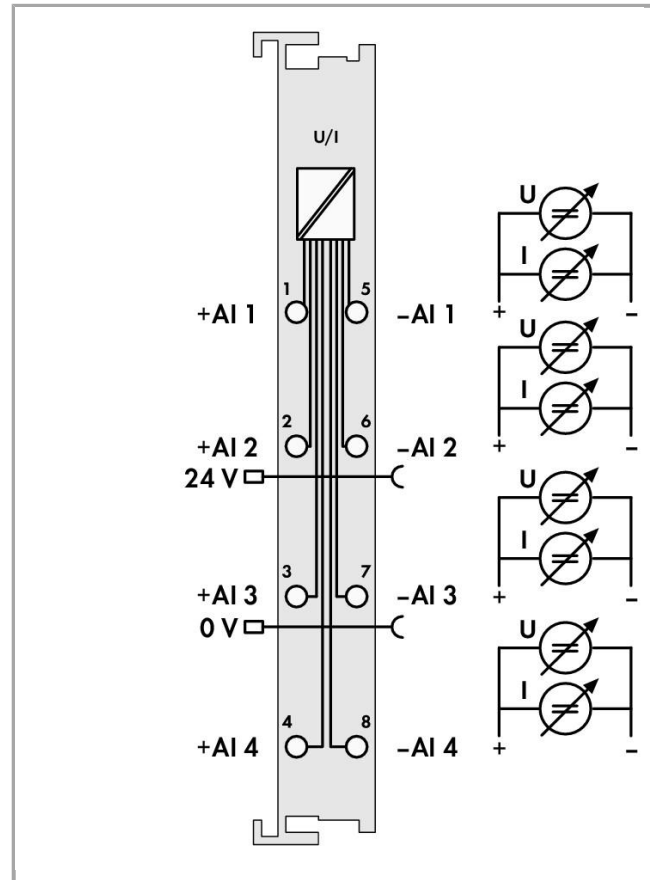
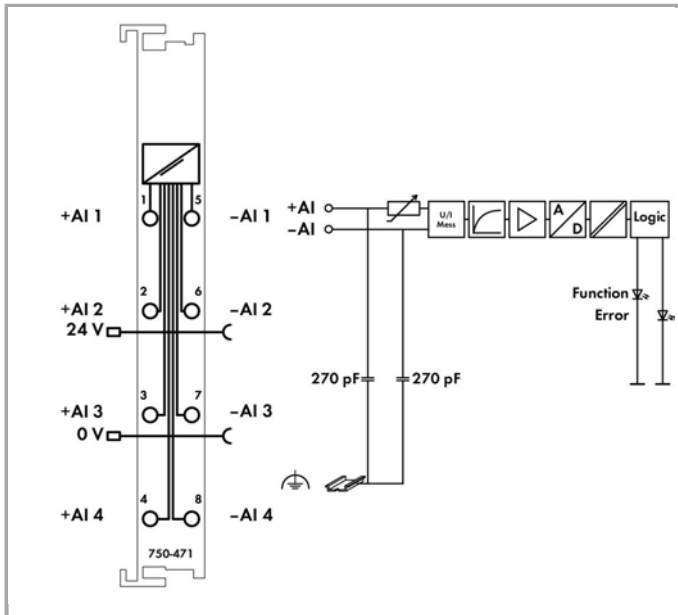
750-471



RoHS Compliant

[BOMcheck.net](https://www.bomcheck.net)

Color:



Item description

This analog input module processes both voltage and current differential signals.

- 0 ... 20 mA, 4 ... 20 mA, 3.6 ... 21 mA NE43, ± 20 mA, 0 ... 10 V, ± 10 V, ± 200 mV
- Channel-wise parameterizable measurement ranges
- Channels are electrically isolated from one another
- 16-bit resolution

A wire break, overload or out-of-measurement range are indicated channel by channel via red LED depending on the set measurement range.

The module can be configured via GSD file, e!COCKPIT and WAGO-I/O-CHECK.

Data

Technical Data

Number of analog inputs	4
Total number of channels (module)	4
Type of signal	Current Voltage
Type of signal current	DC 0 20 mA; DC 4 20 mA; DC 3.6 21 mA; DC -20 +20 mA
Type of signal voltage	DC 0 10 V; DC -10 +10 V; DC -0.2 +0.2 V



Configurable type of signal	yes
Sensor connection	4 x (2-conductor)
Signal characteristic	Differential
Resolution [bit]	16 Bit
Input resistance max.	130 Ω
Bit width	4 x 16-bit data; 4 x 8-bit control/status (optional)
Internal resistance	100 kΩ
Conversion time (typ. ≤)	5 ms
Messfehler, Bezugstemperatur	25 °C
Messfehler, Abweichung max. vom Messbereichsendwert	0.1 %
Bezug für Messfehler (2)	±200 mV
Messfehler, Bezugstemperatur (2)	25 °C
Messfehler, Abweichung max. vom Messbereichsendwert (2)	0.2 %
Temperaturfehler max. vom Messbereichsendwert	0.01 %/K
System supply voltage	DC 5 V; via data contacts
Current consumption, system supply (5 V)	100 mA
Field supply voltage	DC 24 V; über Leistungskontakte (Einspeisung über Messerkontakt; Weiterleitung über Federkontakt)
Number of incoming power jumper contacts	2
Number of outgoing power jumper contacts	2
Current carrying capacity of the power jumper contacts	10 A

Connection data

Connection technology: In-/Outputs	8 x CAGE CLAMP®
Connection type (1)	Inputs/Outputs
Solid conductor	0.08 2.5 mm ² / 28 14 AWG
Fine-stranded conductor	0.08 2.5 mm ² / 28 14 AWG
Strip length	8 9 mm / 0.31 0.35 inch

Geometrical Data

Width	12 mm / 0.472 inch
Height	69.8 mm / 2.748 inch
Height from upper-edge of DIN-35 rail	62.6 mm / 2.465 inch
Depth	100 mm / 3.937 inch

Mechanical data

Type of mounting	DIN-35 rail
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Material Data

Color	light gray
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Housing material	Polycarbonate, polyamide 6.6
Weight	51.5 g
Conformity marking	CE

Environmental Requirements



Surrounding air (operating) temperature	0 55 °C
Surrounding air (storage) temperature	-40 85 °C
Protection class	IP20
Degree of pollution (5)	2 per IEC 61131-2
Operating altitude	0 2000 m
Mounting position	horizontal (standing/lying) or vertical
Relative air humidity (no condensation)	95 %
Vibration resistance	4g per IEC 60068-2-6
Shock resistance	15g per IEC 60068-2-27
EMC immunity to interference	acc. to EN 61000-6-2, marine applications
EMC emission of interference	acc. to EN 61000-6-4, 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

Country of origin	DE
GTIN	4055143764520
Customs Tariff No.	85389099990


Approvals / Certificates

Ex-Approvals





Logo	Approval	Additional Approval Text	Certificate name
	UL Underwriters Laboratories Inc. (HAZARDOUS LOCATIONS)	ANSI/ISA 12.12.01	E198726 Sec. 1
	UL Underwriters Laboratories Inc. (HAZARDOUS LOCATIONS)	ANSI/ISA 12.12.01	E198726 Sec. 1 (HAZARDOUS LOCATIONS)

Country specific Approvals


Certificate

Logo	Approval	Additional Approval Text	name
	DNV GL Det Norske Veritas, Germanischer Lloyd	-	TAA0000194



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)
	RINA RINA Germany GmbH	-	ELE066419XG

Other Approvals

Logo	Approval	Additional Approval Text	Certificate name
	UL UL International Netherlands B.V. (ORDINARY LOCATIONS)	UL 508	E175199 Sec.1 (ORDINARY LOCATIONS)

UL-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	UL UL International Netherlands B.V. (ORDINARY LOCATIONS)	UL 508	E175199 Sec.1
	UL Underwriters Laboratories Inc. (ORDINARY LOCATIONS)	UL 61010-2-201	E175199 Sec10



Downloads

Documentation

Manual

4-Channel Analog Input; for Voltage/Current 4AI U/I Diff Galv	V 1.0.0	pdf 5.6 MB	Download
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Bid Text

750-471		docx 18.4 kB	Download
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Additional Information

Disposal; Electrical and electronic equipment, Packaging	V 1.0.0	pdf 265.8 kB	Download
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System Description

Overview on WAGO-I/O-SYSTEM 750 approvals		pdf 780.2 kB	Download
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750/753 Series I/O-System – General Product Information		pdf 1.7 MB	Download
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Use in Hazardous Environments Term definition, marking and installation regulations	V 1.0.0	pdf 1.0 MB	Download
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Design Notes Basic conditions and recommendations for higher operational safety	V 2.0.0	pdf 1.5 MB	Download
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CAD/CAE - Smart Data

CAD data

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EPLAN

EPLAN Data Portal			Download
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Product family

750/753 Series I/O-System

Show all products from the family

Subject to changes.
