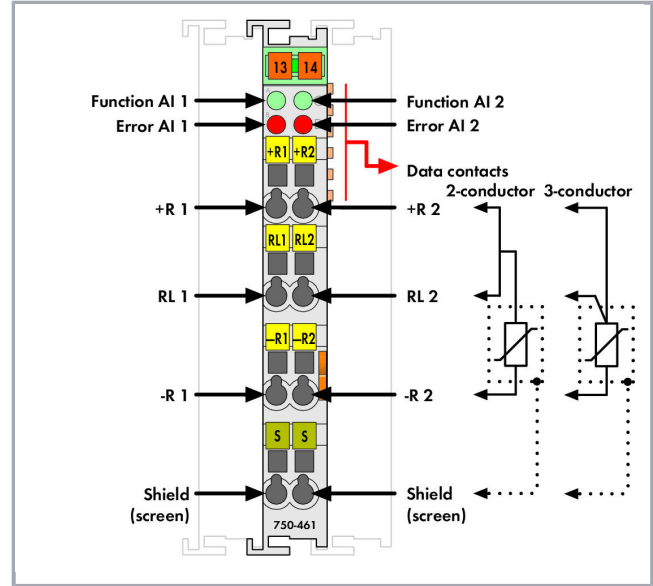




**Data sheet | Item number: 750-461**

2-channel analog input; For Pt100/RTD resistance sensors; light gray

[www.wago.com/750-461](http://www.wago.com/750-461)



RoHS  Compliant

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

Color:

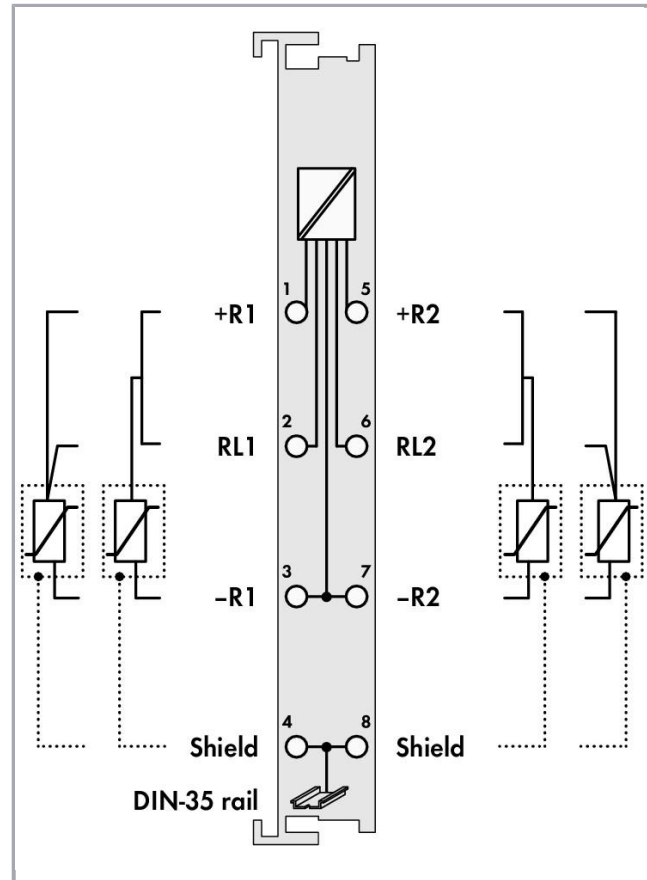
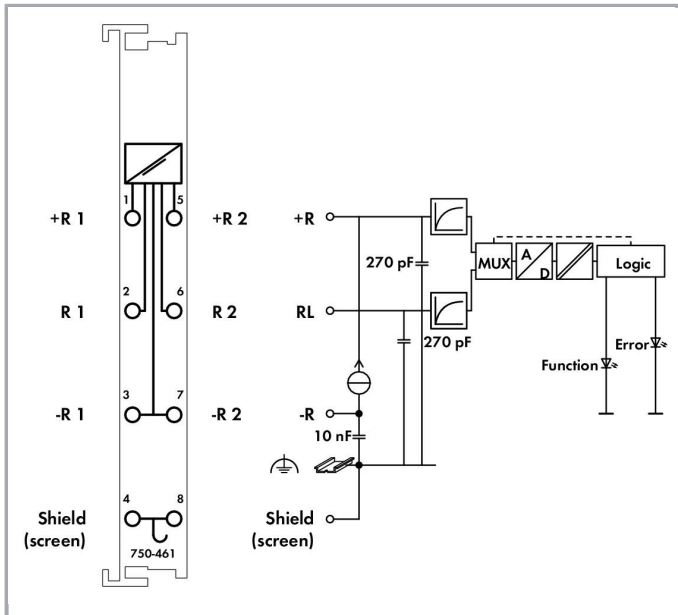
Subject to changes. Please also observe the further product documentation!

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## Data sheet | Item number: 750-461

www.wago.com/750-461



## Item description

This analog input module directly connects to Pt resistance sensors.

Two- or three-wire sensors can be connected.

The module automatically linearizes the entire temperature range. A sensor error (short circuit, line break or measurement range overflow) is indicated by a red LED.

A green LED indicates readiness for operation and error-free communication with the coupler.

The shield directly connects to the DIN-rail.

## Data

## Technical Data

Number of analog inputs	2
Total number of channels (module)	2
Signal type	Resistance measurement
Sensor connection	2 x (2-wire, 3-wire)

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**Data sheet | Item number: 750-461**[www.wago.com/750-461](http://www.wago.com/750-461)

Data width	2 x 16-bit data; 2 x 8-bit control/status (optional)
Resolution (over entire range)	0.1 °C
Conversion time (typ. ≤)	320 ms
Measurement error (reference temperature)	25 °C
Measurement error – deviation (max.) from the upper-range value	0.2 %
Temperature error (max.) of the upper-range value	0.01 %/K
Measured current (typ.)	0.5 mA
Response time (max.)	4 s
Sensor types	Pt100
Temperature range	-200 ... +850 °C
Supply voltage (system)	DC 5 V; via data contacts
Power consumption (5 V system supply)	80 mA
Isolation	500 V system/field

**Connection data**

Connection technology: inputs/outputs	8 x CAGE CLAMP®
Connection type (1)	Inputs/Outputs
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

**Geometrical 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	1.253 MJ
Weight	50.7 g
Conformity marking	CE

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**Data sheet | Item number: 750-461**[www.wago.com/750-461](http://www.wago.com/750-461)**Environmental Requirements**

Surrounding air temperature (operation)	0 ... 55 °C
Surrounding air temperature (storage)	-40 ... 85 °C
Protection type	IP20
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 61000-6-4, marine applications
Exposure to pollutants	Per IEC 60068-2-42 and IEC 60068-2-43
Permissible H <sub>2</sub> S contaminant concentration at a relative humidity 75 %	10 ppm
Permissible SO <sub>2</sub> contaminant concentration at a relative humidity 75 %	25 ppm

**Commercial data**

Product Group	15 (Remote I/O)
Packaging type	BOX
Country of origin	DE
GTIN	4045454486679
Customs tariff number	85389099990

**Approvals / Certificates****Ex-Approvals**

Logo	Approval	Additional Approval Text	Certificate name
	ATEX TUEV Nord Cert GmbH	EN 60079-0	TÜV 07 ATEX 554086 X en.
	TUEV Nord TUEV Nord Cert GmbH	IEC 60079-0	IECEX TUN 09.0001 X

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## Data sheet | Item number: 750-461


[www.wago.com/750-461](http://www.wago.com/750-461)

UL  
Underwriters Laboratories Inc. (HAZARDOUS  
LOCATIONS)

UL 121201

E198726  
Sec.1

## Country specific Approvals

Logo	Approval	Additional Approval Text	Certificate name
	KC National Radio Research Agency	Article 58-2, Clause 3	MSIP- REM-W43- AIM750

## Ship Approvals

Logo	Approval	Additional Approval Text	Certificate name
	ABS American Bureau of Shipping	-	19- HG1821926
	BV Bureau Veritas S.A.	-	13453/DO BV
	DNV GL Det Norske Veritas, Germanischer Lloyd	-	TAA0000194
	KR Korean Register of Shipping	-	KR HMB05880- AC001
	LR Lloyds Register	-	02/20026 (E6)
	NK Nippon Kaiji Kyokai	-	TA17255M
	PRS Polski Rejestr Statków	-	TE/2236 /880590/19

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RINA  
RINA Germany GmbH

ELE066419XG

## Product family

**750/753 Series – I/O System**

[Show all products from the family](#)

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