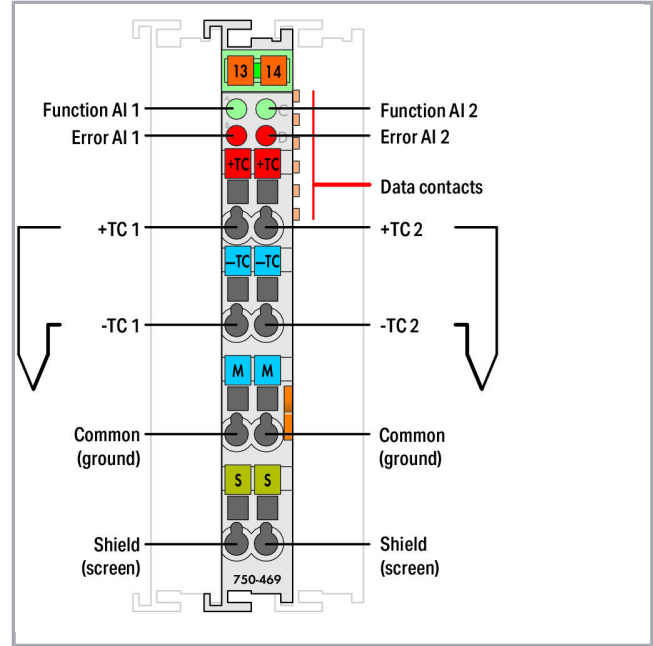




Data sheet | Item number: 750-469

2-channel analog input; Thermocouple K; Diagnostics; light gray

www.wago.com/750-469



RoHS Compliant



Color:

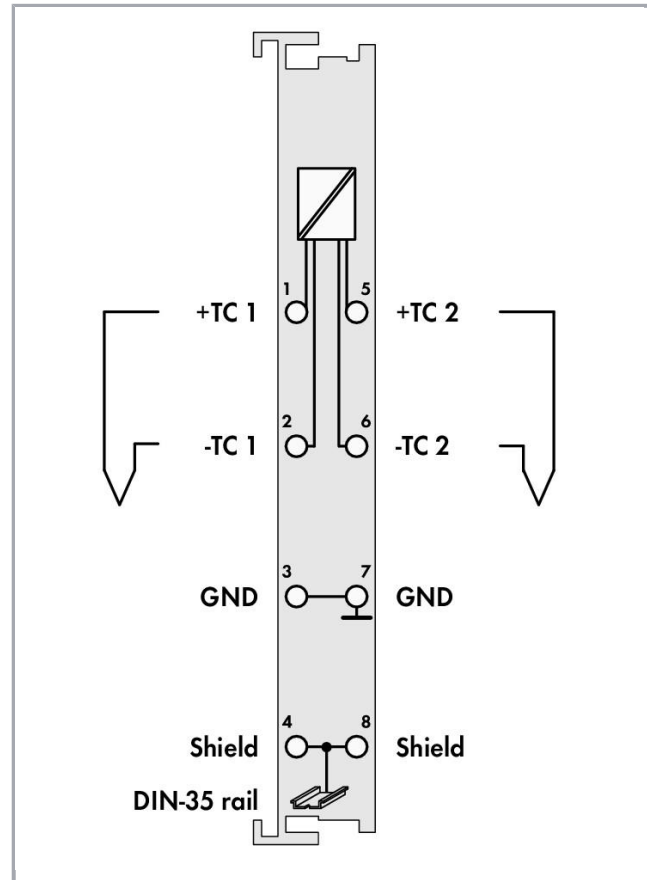
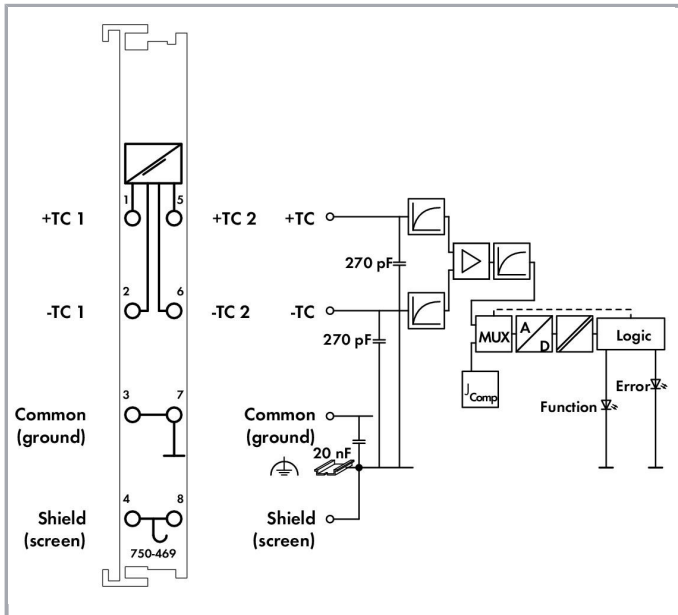
Subject to changes. Please also observe the further product documentation!

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Data sheet | Item number: 750-469

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Item description

This analog input module directly connects to two thermocouples. Internal electrical isolation allows operation of grounded sensors.

The module automatically linearizes the entire temperature range.

Cold junction compensation mitigates the clamping unit offset voltage over the 0–55°C operating range.

A line break 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 | Thermocouple |
| Sensor connection | 2 x (2-wire) |
| Data width | 2 x 16-bit data; 2 x 8-bit control/status (optional) |

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Data sheet | Item number: 750-469www.wago.com/750-469

| | |
|---------------------------------------|---|
| Internal resistance | 1000 k Ω |
| Resolution (over entire range) | 0.1 °C |
| Conversion time (typ. \leq) | 320 ms |
| Measurement error (25 °C) | < ± 6 K (voltage input < ± 2 K; cold junction compensation < ± 4 K) |
| Temperature coefficient | < ± 0.2 K/K |
| Sensor types | Thermocouple K |
| Temperature range | -100 ... +1370 °C |
| Cold junction compensation | at each pair of terminal blocks |
| Supply voltage (system) | DC 5 V; via data contacts |
| Power consumption (5 V system supply) | 65 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 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 | 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 |
|---------------|-------------|

Material Data

| | |
|--------------------|------------------------------|
| Color | light gray |
| Housing material | Polycarbonate, polyamide 6.6 |
| Fire load | 1.273 MJ |
| Weight | 52 g |
| Conformity marking | CE |

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Data sheet | Item number: 750-469www.wago.com/750-469**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 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

| | |
|-----------------------|-----------------|
| Product Group | 15 (Remote I/O) |
| Packaging type | BOX |
| Country of origin | DE |
| GTIN | 4045454393083 |
| 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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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) |
|  | PRS Polski Rejestr Statków | - | TE/2236 /880590/19 |
| | RINA RINA Germany GmbH | - | ELE066419XG |

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Product family

750/753 Series – I/O System

[Show all products from the family](#)

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