

Analog Input; for Thermocouples

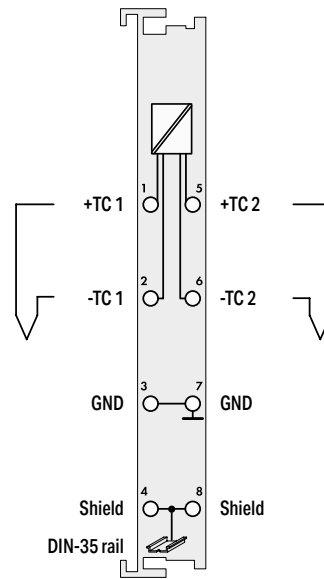
5.4



Figure: 750-469



Figure: 750-458



Item Description

Version

Item No.

Order Text

2-Channel Analog Input; Thermocouple K; Diagnostics

Standard

Pluggable (delivery without connector)

Adjustable

Pluggable (delivery without connector); Adjustable

Data format (S5 control)

750-469

753-469

750-469/003-000

753-469/003-000

750-469/000-200

2AI; TC K; Diagn

2AI; TC K; Diagn

2AI; TC K; Diagn
Adjust2AI; TC K; Diagn
Adjust2AI; TC K; Diagn;
S5

Technical Data

Pluggable connector

Customized data format for S5 control*

Number of analog inputs

Signal type

Temperature range

Resolution

Conversion time

Measuring error (max.) at 25 °C

Temperature error (max.)

Cold junction compensation

Supply voltage (field)

Current consumption – system supply (5 V)

Data width

Isolation

Surrounding air temperature (operation)

Dimensions W x H x D

Approvals

Data sheet and further information, see:

Accessories

Pluggable connector

Coding keys

-100 ... +1370 °C

0.1 °C

320 ms

±6 K (voltage input: ±2 K; cold junction compensation: ±4 K)

±0.2 K/K

Integrated or external

65 mA

2 x 16-bit data; 2 x 8-bit control/status (optional)

500 V (system/field)

0 ... +55 °C

12 x 69.8 x 100 mm

CE; Marine; OrdLoc/HazLoc; ATEX/IECEx

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Item No.

753-110

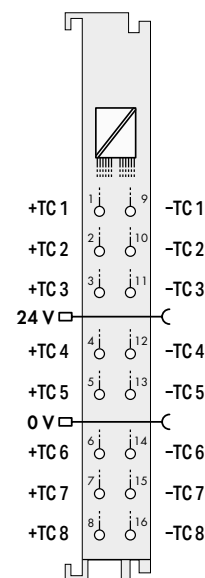
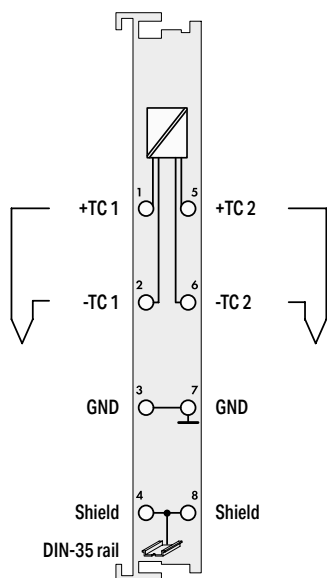
753-150

Item No.

753-110

753-150

*The S5 format allows you to import data with the standard S5 FB 250 function block.



2-Channel Analog Input; Thermocouple; Diagnostics

Thermocouple S	Thermocouple T	Thermocouple J	Thermocouple E	Thermocouple L	Thermocouple ± 120 mV;
750-469/000-001	750-469/000-002	750-469/000-006	750-469/000-008	750-469/000-012	750-469/000-003
2AI; TC S; Diagn	2AI; TC T; Diagn	2AI; TC J; Diagn	2AI; TC E; Diagn	2AI; TC L; Diagn	2AI; TC ± 120 mV; Diagn

8-Channel Analog Input; Thermocouple; Adjustable

Standard
750-458
8AI; TC; Adjust

2

Thermocouple S	Thermocouple T	Thermocouple J	Thermocouple E	Thermocouple L	± 120 mV
-50 ... +1700 °C	-100 ... +400 °C	-100 ... +1200 °C	-100 ... +1000 °C	-100 ... +900 °C	

0.1 °C

320 ms

 ± 6 K (voltage input: ± 2 K; cold junction compensation: ± 4 K) ± 0.2 K/K

Integrated or external

65 mA

2 x 16-bit data; 2 x 8-bit control/status (optional)

500 V (system/field)

0 ... +55 °C

12 x 69.8 x 100 mm

CE; Marine; OrdLoc/HazLoc; ATEX/IECEX

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8

Thermocouple K;
Configurable: J; B; E; N; R; S; T; U; C;
Voltage measurement: -30 ... +30 mV;
-60 ... +60 mV; -120 ... +120 mV;
-240 ... +240 mV

Sensor-specific

0.1 °C

Per channel: ≤ 100 ms

Without cold junction compensation: ± 1 K (type E, N, K, T, J, C); ± 2 K (type S, R); ± 3 K (type B);
Cold-junction compensation measurement error: ± 4 K

 ± 0.05 K/K

Integrated or external

24 VDC (-25 ... +30 %); via power jumper contacts
(power supply via blade contact; transmission via spring contact)

100 mA

8 x 16-bit data; 8 x 8-bit control/status (optional)

500 V (system/field)

0 ... +55 °C

12 x 69.8 x 100 mm

CE; Marine; OrdLoc/HazLoc; ATEX/IECEX

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