

IO-Link / analog converter

AI Multi thermocouple, M12, straight

Art.No.: 5000-00501-1400001

Weight: 0.045 kg

Country of origin: DE

Model designation: IOL AI-TH-V2-MULT-PAR

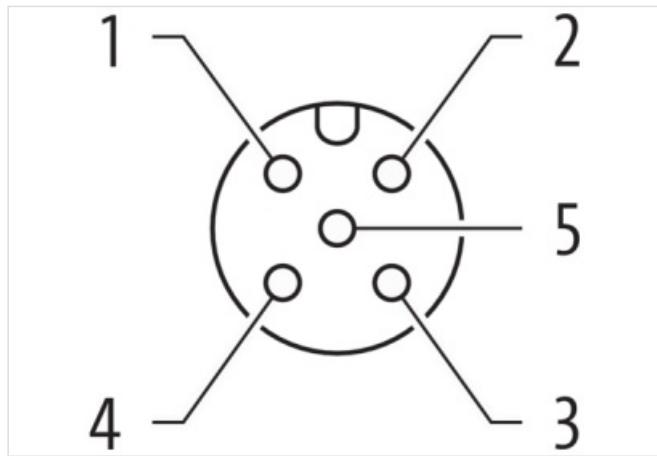
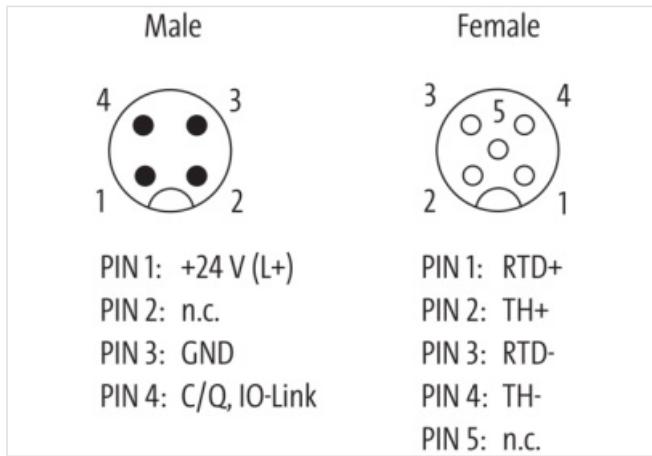
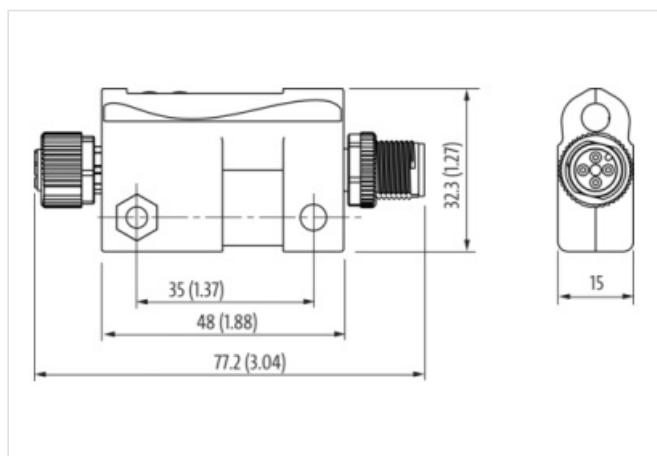
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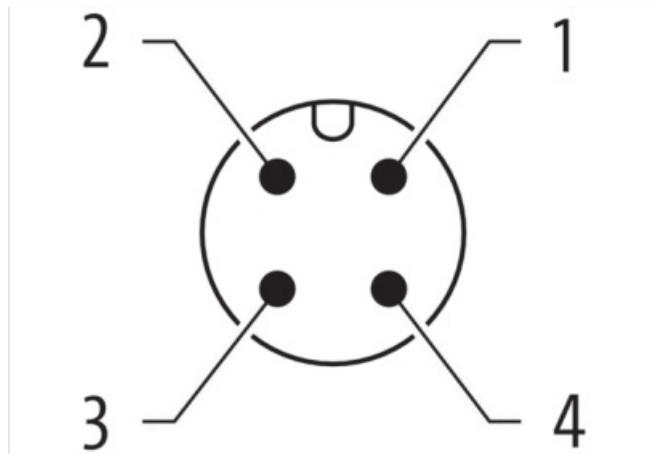
AI Multi Thermo Element, M12

16Bit, IP65/67, IO-Link V1.1, Class A

[Link to Product](#)

Illustration





Product may differ from Image



Header

Material short text IOL AI-TH-V2-MULT-PAR

Commercial data

URL Webshop	https://shop.murrelektronik.com/5000-00501-1400001
GTIN	4048879588447
ECLASS-6.0	27242601
ECLASS-6.1	27242602
ECLASS-7.0	27242602
ECLASS-7.1	27242602
ECLASS-8.0	27242602
ECLASS-8.1	27242602
ECLASS-9.0	27242602
ECLASS-9.1	27242602
ECLASS-10.0.1	27242602
ECLASS-10.1	27242602
ECLASS-11.0	27242602
ECLASS-11.1	27242602
ECLASS-12.0	27242602
ECLASS-13.0	27242602
ECLASS-14.0	27242602
ETIM-5.0	EC001596
ETIM-6.0	EC001596
ETIM-7.0	EC001596
ETIM-8.0	EC001596
customs tariff number	85437090
EAN	4048879588447
Packaging unit	1

Electrical data | Supply

Norm operating voltage	IEC/EN 61131-2
Operating voltage DC	24 V
Operating voltage DC min.	18 V
Operating voltage DC max.	30 V
Operating voltage US DC	24 V

The information in this Product-PDF has been compiled with the utmost care.

Liability for the correctness, completeness and topicality of the information is restricted to gross negligence. Version: 2026-01-28

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Current consumption max. 15 mA

Electrical data | Input

Current carrying capacity max.	0,2 A
Parameterizable input averaging filter process data	Yes
Conversion time with net suppression	OFF: 10 ms, 50 Hz: 60 ms, 60 Hz: 100 ms

Industrial communication | IO-Link

Port Class	A
IO-Link revision ID	V1.1
IO-Link transmission rate	COM2 (38.4 kbit/s)
IO-Link process data length input	2 bytes
IO-Link cycle time min.	10 ms

Diagnostics

Short circuit diagnosis	Yes
Overload diagnosis	Yes
Temperature control	Yes
Diagnostic via IO-Link	Yes
Diagnostic via LED	Yes
LED display	Ethernet connection/data traffic
IO-Link events	Undervoltage supply, lower limit, upper limit, Overvoltage supply, Overtemperature, Device defect

Device protection | Electrical

Degree of protection (EN IEC 60529)	IP67, IP65
Invers-polarity protection	Yes
Over voltage protection	Yes
Short circuit protection sensor supply	Yes
Resistance to loads with regenerative power	Yes

Mechanical data | Material data

Material housing	Plastic
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Mechanical data | Mounting data

Height	32,3 mm
Width	77,2 mm
Depth	15 mm

Environmental characteristics | Climatic

Operating temperature min.	-30 °C
Operating temperature max.	70 °C
Ambient temperature (storage, transport)	-40 °C

Connection type 2

Connection type 1	AI
Connection type 2	IO-Link Port
Family construction form	M12
No. of poles	5
Coding	A
Gender	female
Color contact carrier	black
PIN 1	RTD +
PIN 2	TH +
PIN 3	RTD -
PIN 4	TH -
PIN 5	n.c.
Family construction form	M12
No. of poles	4

Coding	A
Gender	male
Color contact carrier	black
PIN 1	24 V DC (L +)
PIN 2	n.c.
PIN 3	0 V (L -)
PIN 4	C / Q / IO-Link