imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Inline ECO, Temperature measurement terminal, Analog UTH inputs: 4 (type K), connection method: 2-wire, transmission speed in the local bus: 500 kbps, including Inline connector

Product Description

The terminal is designed for use within an Inline station.

This terminal can be used to acquire signals from standard thermocouples.

The terminal supports type K thermocouples according to DIN EN 60584-1.

The measured values are depicted in standardized representation format.

Inline ECO terminals are approved for the temperature range from 0°C to +55°C. The electronics base and Inline connector are supplied as standard.

Why buy this product

- ✓ 4 differential inputs for thermocouples
- Measuring range: -270 °C ... +1372 °C
- Connection of sensors in 2-wire technology
- Diagnostic information in the process data word
- Diagnostic indicator

RoHS

Key Commercial Data

Packing unit	1 STK
GTIN	4 055626 206080
GTIN	4055626206080

Technical data

Note

	Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
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Dimensions

Width	12.2 mm
Height	119.8 mm
Depth	71.5 mm



Technical data

Ambient conditions

0 °C 55 °C
-25 °C 85 °C
10 % 95 % (according to DIN EN 61131-2)
10 % 95 % (according to DIN EN 61131-2)
70 kPa 106 kPa (up to 3000 m above sea level)
70 kPa 106 kPa (up to 3000 m above sea level)
IP20

General

Mounting type	DIN rail
Net weight	69 g
Note on weight specifications	with connector
gnostics messages Failure of the internal I/O supply I/O error message sent to the coupler	
	Checksum error I/O error message sent to the bus coupler

Interfaces

Designation	Inline local bus
No. of channels	2
Connection method	Inline data jumper
Transmission speed	500 kbps

Inline potentials

Designation	Communications power (UL)	
Supply voltage	7.5 V DC (via voltage jumper)	
Current consumption	typ. 38 mA	
	max. 55 mA	
Designation	Supply of analog modules (U _{ANA})	
Supply voltage	24 V DC (via voltage jumper)	
Supply voltage range	19.2 V DC 30 V DC (including all tolerances, including ripple)	
Current consumption	typ. 32 mA	
	max. 39 mA	
Power consumption	typ. 1.05 W (total)	

Analog inputs

Number of inputs	4 (type K)
Input name	Analog UTH inputs
Description of the input	Differential inputs
Connection method	Inline connector
Connection technology	2-wire
Note regarding the connection technology	shielded
Sensor types that can be used (TC)	К
Measuring principle	Sigma/Delta process



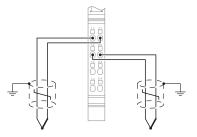
Technical data

Analog inputs

Measured value representation	16 bits (15 bits + sign bit)	
A/D conversion time	typ. 120 ms	
Resolution A/D	24 bit	
Process data update	< 10 ms	
Type of protection	Transient protection of inputs	
Electrical isolation		
Test section	Bus logic (local bus, communications power) 500 V AC 50 Hz 1 min.	
	Analog I/O 500 V AC 50 Hz 1 min.	
	Functional earth ground 500 V AC 50 Hz 1 min.	
Standards and Regulations		
Protection class	III, IEC 61140, EN 61140, VDE 0140-1	
Environmental Product Compliance		
China RoHS	Environmentally friendly use period: unlimited = EFUP-e	

Drawings





Connecting the sensors

Approvals

Approvals

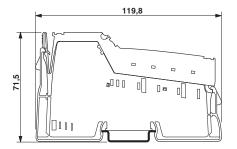
Approvals

UL Listed / cUL Listed / cULus Listed

Ex Approvals



No hazardous substances above threshold values





Approvals

Approval details

UL Listed	LISTED	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 238705
cUL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 238705
cULus Listed			

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