

Specifications



Eaton MTL5573

Eaton Crouse-Hinds series MTL5500 temperature converter, 1 channel, Temperature input, 20-35 Vdc power supply, 1.2W dissipation, 50mA current consumption, LED indication: Green = power, Yellow = status, THC or RTD input

General specifications

PRODUCT NAME	Eaton Crouse-Hinds series MTL5500 temperature converter
CATALOG NUMBER	MTL5573
EAN	5056891310754
PRODUCT LENGTH/DEPTH	109.8 mm
PRODUCT HEIGHT	118.8 mm
PRODUCT WIDTH	15.8 mm
PRODUCT WEIGHT	150 g
PRODUCT TYPE	Temperature converter

Certifications and compliances

AREA CLASSIFICATION	Hazardous/Classified Locations
STANDARDS TYPE	IEC IECEX/ATEX
IECEX/ATEX HAZARDOUS RATING	Zone 0
EMC	EN61326

Product specifications

SIGNAL TYPE	Temperature input
NUMBER OF CHANNELS	1
MOUNTING METHOD	T-section 35mm DIN rail
POWER DISSIPATION	1.2W
RESPONSE TIME	500ms
COLD JUNCTION COMPENSATION	Selectable ON or OFF
COLD JUNCTION COMPENSATION ERROR	$\leq 1.0^{\circ}\text{C}$
COMMON MODE REJECTION	120 dB for 240V at 50 or 60 Hz
SERIES MODE REJECTION	40 dB for 50 or 60 Hz
SAFETY DRIVE ON SENSOR FAILURE	Upscale, downscale, or off
EARLY BURNOUT	EBD indicated when loop resistance increase is $>50\Omega$ Early burnout detection for thermocouples (when selected)
TRANSFER ACCURACY	$\pm 11\mu\text{A}$
TEMPERATURE DRIFT	$\pm 1.0\mu\text{A}/^{\circ}\text{C}$
CONFIGURATION	A personal computer running MTL PCS45 software with a PCL45USB serial interface
GALVANIC ISOLATION	250V rms between safe-area circuits and power supply
TYPE	THC or RTD input

Current

CURRENT CONSUMPTION	50mA
LOAD RESISTANCE	0-400 Ω
MAXIMUM LOAD RESISTANCE	600 Ω with safety drive on sensor failure enabled >10k Ω with safety drive on sensor failure disabled
RTD EXCITATION CURRENT	200 μA

Output

OUTPUT SIGNAL RANGE	4-20mA nominal into 600 Ω max.
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Voltage

POWER SUPPLY	20-35 Vdc
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Connection

ELECTRICAL CONNECTION	Crimp ferrules
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TERMINAL CAPACITY	Accepts conductors of up to 2.5mm2 stranded or single-core
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LED indication	
LED INDICATION	Yes
LED COLOR - POWER	Green
LED COLOR - STATUS	Yellow

Environmental	
MINIMUM AMBIENT OPERATING TEMPERATURE	-20 °C
MAXIMUM AMBIENT OPERATING TEMPERATURE	60 °C
MINIMUM AMBIENT STORAGE TEMPERATURE	-40 °C
MAXIMUM AMBIENT STORAGE TEMPERATURE	80 °C
HUMIDITY	5-95% relative humidity

Resources	
CATALOGS	MTL4500/5500 range of Intrinsically Safe Galvanic Isolators - catalog
INSTALLATION INSTRUCTIONS	MTL5500 Range of Isolating Interface Units - instruction manual MTL5500 ATEX Safety Instructions

PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:
DATE:

