

Specifications



Eaton MTL4541A

Eaton Crouse-Hinds series MTL4500 current repeater, 1 channel, Analogue input, 20-35 Vdc power supply, 0.8W at 24 Vdc dissipation, 4-20mA signal range, HART communication, LED indication: Green = power, Passive i/p for HART transmitters

General specifications

PRODUCT NAME	Eaton Crouse-Hinds series MTL4500 current repeater
CATALOG NUMBER	MTL4541A
EAN	3066227675907
PRODUCT LENGTH/DEPTH	104.8 mm
PRODUCT HEIGHT	121.8 mm
PRODUCT WIDTH	15.8 mm
PRODUCT WEIGHT	140 g
PRODUCT TYPE	Current repeater

Certifications and compliances

AREA CLASSIFICATION	Hazardous/Classified Locations
STANDARDS TYPE	IEC IECEX/ATEX
IECEX/ATEX HAZARDOUS RATING	Zone 0
EMC	EN61326
SAFETY INTEGRITY LEVEL ACCORDING TO IEC61508	SIL2

Current

UNDER/OVER RANGE	1.0 to 21.5mA
LOAD RESISTANCE	0-360Ω

Input

INPUT IMPEDANCE	>230Ω
MAXIMUM INPUT VOLTAGE DROP	<6.6V

LED indication

LED INDICATION	Yes
LED COLOR - POWER	Green

Product specifications

SIGNAL TYPE	Analogue input
NUMBER OF CHANNELS	1
MOUNTING METHOD	MTL4500 range of backplanes
POWER DISSIPATION	0.8W at 24 Vdc
SIGNAL RANGE	4-20mA
RESPONSE TIME	Settles within 200μ A of final value after 20ms
COMMUNICATION SUPPORTED	HART
TRANSFER ACCURACY	Better than 20μ A
TEMPERATURE DRIFT	<1μ A/°C
RIPPLE	<50μ A peak-to-peak up to 80 kHz
GALVANIC ISOLATION	50V between safe-area circuits and power supply
TYPE	Passive i/p for HART transmitters

Voltage

POWER SUPPLY	20-35 Vdc
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Connection

ELECTRICAL CONNECTION	Crimp ferrules
TERMINAL CAPACITY	Accepts conductors of up to 2.5mm2 stranded or single-core

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 [MTL4500/4600 Range Instruction Manual](#)
[MTL4500 ATEX Safety Instructions](#)

TECHNICAL SERVICE BULLETINS [MTL4500 FSM Safety Manual - Analogue Input Modules](#)
[MTL4500 FSM Safety Manual - Analogue Input Modules - A Variants](#)

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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