

Specifications



Eaton MTL5546Y

Eaton Crouse-Hinds series MTL5500 isolating driver, 1 channel, Analogue output, 20-35 Vdc, 0.8W, 35mA, 4-20mA signal, HART, Input: Normal <6.0V, Open circuit <0.5mA, LED indication: Green = power, For valve positioners with LFD

General specifications

PRODUCT NAME	Eaton Crouse-Hinds series MTL5500 isolating driver
CATALOG NUMBER	MTL5546Y - FSM ASSESSED
EAN	3066227675812
PRODUCT LENGTH/DEPTH	109.8 mm
PRODUCT HEIGHT	118.8 mm
PRODUCT WIDTH	15.8 mm
PRODUCT WEIGHT	150 g
PRODUCT TYPE	Isolating driver

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 and SIL3

Current

CURRENT CONSUMPTION	35mA at 24 Vdc
UNDER/OVER RANGE	Over range = 24mA Under range = 1mA
MINIMUM LOAD RESISTANCE	90Ω (short circuit detection at <50Ω)
MAXIMUM LOAD RESISTANCE	800Ω (16V at 20mA)

Input

INPUT/OUTPUT CHARACTERISTICS	Normal <6.0V Open circuit <0.5mA
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LED indication

LED INDICATION	Yes
LED COLOR - POWER	Green

Product specifications

SIGNAL TYPE	Analogue output
NUMBER OF CHANNELS	1
MOUNTING METHOD	T-section 35mm DIN rail
POWER DISSIPATION	0.8W at 24V
SIGNAL RANGE	4-20mA
RESPONSE TIME	Settles within 200μ A of final value within 100ms
COMMUNICATION SUPPORTED	HART
TRANSFER ACCURACY	Better than 20μ A
TEMPERATURE DRIFT	<1.0μ A/°C
RIPPLE	<40μ A peak-to-peak
SWITCHING FREQUENCY	500 Hz to 10 kHz
GALVANIC ISOLATION	250V rms between safe-area circuits and power supply
TYPE	For 4-20mA HART valve positioners with line fault detection

Voltage

POWER SUPPLY	20-35 Vdc
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Connection

ELECTRICAL CONNECTION	Crimp ferrules
TERMINAL CAPACITY	Accepts conductors of up to 2.5mm ² 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 [MTL5500 ATEX Safety Instructions](#)
[MTL5500 Range of Isolating Interface Units - instruction manual](#)

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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