Specifications



Eaton MTL5541 - FSM ASSESSED

Eaton Crouse-Hinds series MTL5500 repeater power supply, 1 channel, Analogue input, 20-35 Vdc, 0.7W at 24 Vdc dissipation, 51mA at 24V, 4-20mA signal, HART (terminals 1 & 2 only), LED indication: Green = power, 2- or 3-wire transmitters

General specifications	
PRODUCT NAME	Eaton Crouse-Hinds series MTL5500 repeater power supply
CATALOG NUMBER	MTL5541 - FSM ASSESSED
EAN	3066227675822
PRODUCT LENGTH/DEPTH	109.8 mm
PRODUCT HEIGHT	118.8 mm
PRODUCT WIDTH	15.8 mm
PRODUCT WEIGHT	150 g
PRODUCT TYPE	Repeater power supply

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

Product specifications

SIGNAL TYPE	Analogue input
NUMBER OF CHANNELS	1
MOUNTING METHOD	T-section 35mm DIN rail
POWER DISSIPATION	0.7W at 24 Vdc
SIGNAL RANGE	4-20mA
RESPONSE TIME	Settles to within 10% of final value within 50µs
COMMUNICATION SUPPORTED	HART (terminals 1 & 2 only)
TRANSFER ACCURACY	Better than 15µA
TEMPERATURE DRIFT	<0.8µA/°C
RIPPLE	<50µA peak-to-peak
GALVANIC ISOLATION	250V rms between safe-area circuits and power supply
TYPE	2- or 3-wire transmitters

Current

CURRENT CONSUMPTION	51mA at 24V
LOAD RESISTANCE	0-360Ω (at 24mA), 0-450Ω (at 20mA)

Voltage

POWER SUPPLY	20-35 Vdc

Connection

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

LED indication

LED INDICATION	Yes
LED COLOR - POWER	Green

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

INSTALLATION INSTRUCTIONS	MTL5500 Range of Isolating Interface Units - instruction manual
TECHNICAL SERVICE BULLETINS	MTL5500 FSM Safety Manual - Analogue Input Modules - A Variants MTL5500 FSM Safety Manual - Analogue Input Modules

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
DATE:	

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