

Specifications



Eaton MTL5511

Eaton Crouse-Hinds series MTL5500 isolator, 1 channel, Digital input, 20-35 Vdc, 0.6W dissipation, 25mA, Relay: Contact (Zone 2): 35V, 2A, 100VA, 7-9 Vdc sensor, LED: Green=power, Yellow=status, Red=LFD, Switch/proximity detector interface

General specifications

PRODUCT NAME	Eaton Crouse-Hinds series MTL5500 isolator
CATALOG NUMBER	MTL5511 - FSM ASSESSED
EAN	3066227675837
PRODUCT LENGTH/DEPTH	109.8 mm
PRODUCT HEIGHT	118.8 mm
PRODUCT WIDTH	15.8 mm
PRODUCT WEIGHT	150 g

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	25mA at 24V
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Output

OUTPUT CHARACTERISTICS	Outputs open if input < 1.2mA (> 10kΩ in input circuit) Outputs closed if input > 2.1mA (< 2kΩ in input circuit)
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LED indication

LED INDICATION	Yes
LED COLOR - POWER	Green
LED COLOR - STATUS	Yellow
LED COLOR - LFD	Red

Product specifications

SIGNAL TYPE	Digital input
NUMBER OF CHANNELS	1
MOUNTING METHOD	T-section 35mm DIN rail
POWER DISSIPATION	0.6W at 24V
ELECTRICAL SPECIFICATIONS	Relay characteristics: Contact rating (Zone 2): 35V, 2A, 100VA
HYSTERESIS	200μ A (650Ω) nominal
RESPONSE TIME	10ms maximum
LINE FAULT DETECTION	User-selectable via switches on the side of the unit
GALVANIC ISOLATION	250V rms between safe-area circuits and power supply
TYPE	Switch/proximity detector interface

Voltage

POWER SUPPLY	20-35 Vdc
SENSOR VOLTAGE	7-9 Vdc from 1kΩ ±10%

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

INSTALLATION INSTRUCTIONS	MTL5500 Range of Isolating Interface Units - instruction manual
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PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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