

Specifications



Eaton MTL5514D

Eaton Crouse-Hinds series MTL5500 isolator, 1 channel, Digital input, 20-35 Vdc, 0.7W, 29mA, Relay: Contact (Zone 2): 35V, 2A, 100VA, Phase reversal, LED: Green=power, Yellow=status, Red=LFD, Two single-pole relays w/ changeover contacts

General specifications

PRODUCT NAME	Eaton Crouse-Hinds series MTL5500 isolator
CATALOG NUMBER	MTL5514D
EAN	5056891310099
PRODUCT LENGTH/DEPTH	109.8 mm
PRODUCT HEIGHT	118.8 mm
PRODUCT WIDTH	15.8 mm
PRODUCT WEIGHT	150 g
PRODUCT TYPE	Isolator

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	29mA at 24 Vdc
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Output

OUTPUT CHARACTERISTICS	Outputs closed if input > 2.1mA (< 2k Ω in input circuit) Outputs open if input < 1.2mA (> 10k Ω 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	0.7W at 24V
ELECTRICAL SPECIFICATIONS	Relay characteristics: Contact rating (Zone 2): 35V, 2A, 100VA
HYSTERESIS	200 μ A (650 Ω) nominal
RESPONSE TIME	10ms maximum
LINE FAULT DETECTION	User-selectable via switches on the side of the unit
PHASE REVERSAL	Yes
GALVANIC ISOLATION	250V rms between safe-area circuits and power supply
SPECIAL FEATURES	Two single-pole relays with changeover contacts
TYPE	Switch/proximity detector interface

Voltage

POWER SUPPLY	20-35 Vdc
SENSOR VOLTAGE	7-9 Vdc from 1k Ω $\pm$ 10%

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

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:



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