

MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

Reference package for procurement and maintenance review

MTL INSTRUMENTS

MTL831B

EIGHT-CHANNEL ANALOG MULTIPLEXER TRANSMITTER

Used with the applicable MTL remote analog I/O configuration.

REFERENCE PACKAGE

OFFICIAL DOCUMENT

Selected official manufacturer pages follow this cover.

Source: MTL official product documentation

MTL800 RANGE COMMON SPECIFICATION

Humidity

5–95% RH (without condensation)

EMC compliance

EN 50081-2/EN 50082-2, generic emission/immunity standards.
These refer to appropriate IEC/CISPR standards.

Terminals

Detachable, each accommodates two 2.5mm² conductors

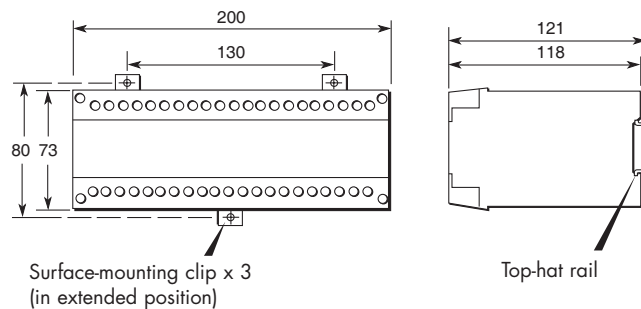
Casings

Moulded polycarbonate

CONDITIONS OF USE

The conditions governing the use of MTL800 range of multiplexers are given in the relevant certificates and schedules, copies of which are available from Eaton's MTL product line.

DIMENSIONS (mm)



APPROVALS

Country	Canada	Czech	Russia	UK	USA
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MTL831B

(Authority)	(CSA)	(FTZU)	(GosGor TechNadzor)	(BASEEFA)	(FM)
Standard	C22.2 No.157	CSN EN 50014 CSN EN 50020	–	EN 50014 EN 50020 EN 50284	3610 Entity
Approved for	Class 1, Div 1, Gps A-D	Ex ia IIC T4	EEx ia IIC T4	EEx ia IIC T4	Class 1, Div 1, Gps A-D
Certificate/ File No.	1192829	FTZU98Ex0025	PPC00-25146	03ATEX0006X	J.I.5B0A8.AX-1

MTL3052

(Authority)	(CSA)	(FTZU)	(GosGor TechNadzor)	(BASEEFA)	(FM)
Standard	C22.2 No.157	CSN E33 0380	–	EN 50014 EN 50020	3610 Entity
Approved for	Class 1, II, III Div 1, Gps A-G	[Ex ia IIC]	[Ex ia] IIC T4	[EEx ia] IIC	Class 1, II, III Div 1, Gps A-G
Certificate/ File No.	LR36637-42	J02043	PPC00-25146	03ATEX0034	J.I.0Q4A0.AX

MTL800 RANGE SYSTEM SPECIFICATION

Maximum loop impedance (each data highway)

50Ω when using MTL3052 interface (terminals 7 & 8)
130Ω when using MTL3052 interface (terminals 5 & 6)
300Ω for non-IS applications

Transmission distance (transmitter to receiver)

0.5km typically (IS applications)
1.5km typically (non-IS applications)
For many applications it is possible to use longer distances up to 3km, for details consult Eaton's MTL product line

Intrinsically safe interface (IS applications)

1 MTL3052 isolating interface unit for each data highway

Earth fault protection (optional)

An optional MTL4220 earth leakage detector will detect line-to-earth faults on either line of either highway.

Data highway monitoring

Highway 1 LED, green (located on receiver)

ON when highway 1 connected and operating

Highway 2 LED, green (located on receiver)

ON when highway 2 connected and operating

Highway 1 & 2 status

Serial output receivers: condition of highway(s) transmitted in unit status word to process controller

System failure monitoring

System failure LED, red (located on receiver)

ON when both highways disconnected or faulty or when there is an internal receiver fault

System failure signal

Serial output receivers: derived from status word

Power supply failure

All relays and LEDs de-energise

The given data is only intended as a product description and should not be regarded as a legal warranty of properties or guarantee.
In the interest of further technical developments, we reserve the right to make design changes.



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