IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEx KEM 08.0008X**

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Certificate history:
Issue 3 (2017-03-30)
Issue 2 (2013-05-27)
Issue 1 (2011-08-11)
Issue 0 (2008-07-10)

Status: **Current**

Issue No: 4

Date of Issue: 2023-10-30

Applicant: **Eaton Electric Limited**
Great Marlings
Butterfield, Luton
Bedfordshire, LU2 8DL
United Kingdom

Equipment: **Model MTL661, Model MTL662, Model MTL663 and Model MTL665**

Optional accessory:

Type of Protection: **Ex ia**

Marking: Ex ia IIC T4 Ga
Ex ia IIIC T_{200} 100 ºC Da
Ex ia I Ma (type MTL663 only)

Approved for issue on behalf of the IECEx Certification Body: **R. Schuller**

Position: **Certification Manager**

Signature:
(for printed version)

Date:
(for printed version)

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
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Certificate issued by:

DEKRA Certification B.V.
Meander 1051
6825 MJ Arnhem
Netherlands

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Manufacturer: **Eaton Electric Limited**
Great Marlings
Butterfield, Luton
Bedfordshire, LU2 8DL
United Kingdom

Manufacturing locations: **Eaton Electric Limited**
Great Marlings
Butterfield, Luton
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This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements.This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :
The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-11:2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:
A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

NL/KEM/ExTR08.0008/04

Quality Assessment Report:

GB/BAS/QAR07.0017/10

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EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

The 4 ... 20 mA Loop Powered Indicator Model MTL661, Model MTL662, Model MTL663 and Model MTL665 for panel mounting or field mounting, is connected in series in an intrinsically safe circuit.
The input circuit of the indicator is designed such, that is does not influence the intrinsically safe circuit to which it is connected.
The indicator may optionally be provided with a backlight (Model MTL66xB).

The enclosure of the indicator provides a degree of protection of at least IP65 in accordance with IEC 60529.

Ambient temperature range:
-30 °C to +50 °C for EPL Da.
-30 °C to +70 °C for EPL Db with a maximum dust layer thickness of 5 mm.
-30 °C to +70 °C for all other EPL's.

SPECIFIC CONDITIONS OF USE: YES as shown below:
When the enclosure of the Indicator is made of aluminium alloy, when used in a potentially explosive atmosphere requiring apparatus of equipment protection level Ga, the Indicator shall be installed so, that even in the event of rare incidents, an ignition source due to impact or friction sparks between the enclosure and iron/steel is excluded.

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Equipment (continued):

Electrical data

Input circuit (terminals 4 and 5):

in type of protection intrinsic safety Ex ia IIC/IIIC, only for connection to an intrinsically safe circuit, with the following maximum values:
Ui = 30 V; Ii = 200 mA; Pi = 1.2 W; Ci = 0 nF; Li = 0 mH.

Backlight circuit (terminals 9 and 10):

in type of protection intrinsic safety Ex ia IIC/IIIC, only for connection to an intrinsically safe circuit,with the following maximum values:
Ui = 28 V; Ii = 200 mA (resistively limited); Pi = 0.96 W; Ci = 0 nF; Li = 0 mH

The backlight circuit is separated from the input circuit.

Installation instructions

To maintain the degree of protection of at least IP65 in accordance with IEC 60529, certified cable entries in accordance with IEC 60079-0 must be used and correctly installed. Unused openings must be closed with suitable blanking elements.

To avoid voltage and current addition the intrinsically safe circuits shall be wired according to IEC 60079-14.

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
assessment to new edition of standard,
addition Ex marking for mining for type MTL663,
extension of the lower temperature,
removal of model MTL664.