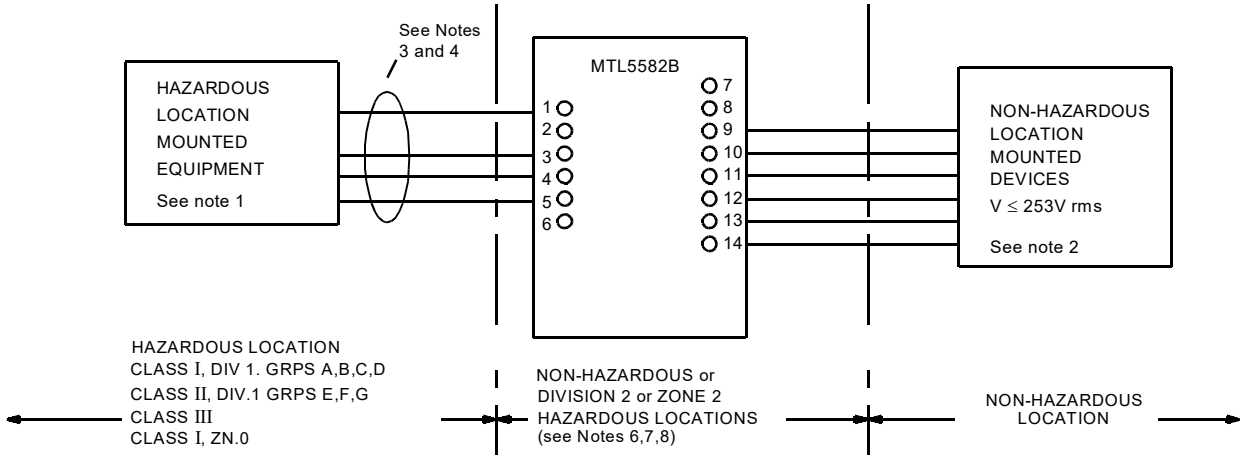
Third Angle Projection | Do Not Scale | All Dimensions in mm

Date	Modification

Eaton Electric Limited,
Great Marlings, Butterfield, Luton, Bedfordshire, England, LU2 8DL
Telephone: +44 (0)1582 723633
Web: www.mtl-inst.com | Email: mtlenquiry@eaton.com



Note 1
The Hazardous location equipment may be switches or thermocouples.
Other apparatus such as RTD's, LEDs and non-inductive resistors may also be used if the auto-ignition temperature of the hazardous location is greater than T4 (275°F or 135°C).
Certified devices with correct Entity Concept parameters may also be used.

Note 2
The Non-Hazardous Location (or Control room) equipment must not generate or use more than 253Vrms.

Note 3
For guidance on the installation see ANSI/ISA-RP12.06.01.

Note 4
Entity Concept parameters for MTL5582B terminals are as follows:

Terminals 1, 3 & 4:
Voc <= 6.51V Isc <= 6mA

Groups A, B, IIC	Ca ≤ 22.0µF	La ≤ 987.6mH
Groups C, E, IIB	Ca ≤ 500µF	La ≤ 1,000mH
Groups D, F, G, IIA	Ca ≤ 1,000µF	La ≤ 1,000mH

Terminals 1 & 3:
Voc <= 6.51V Isc <= 6mA

Groups A, B, IIC	Ca ≤ 100µF	La ≤ 1,000mH
Groups C, E, IIB	Ca ≤ 1,000µF	La ≤ 1,000mH
Groups D, F, G, IIA	Ca ≤ 1,000µF	La ≤ 1,000mH

Terminals 1, 3, 4 & 5:
Voc <= 6.51V Isc <=

Groups A, B, IIC	Ca ≤ 22µF	La ≤ 355.5mH
Groups C, E, IIB	Ca ≤ 500µF	La ≤ 1,000mH
Groups D, F, G, IIA	Ca ≤ 1000µF	La ≤ 1,000mH

Programming / Configuration port
Voc <= 6.68V Isc <= 12mA10mA

Groups A, B, IIC	Ca ≤ 0.478µF	La ≤ 79.4mH
Groups C, E, IIB	Ca ≤ 2.88µF	La ≤ 317.9mH
Groups D, F, G, IIA	Ca ≤ 11.6µF	La ≤ 635.8mH

This component / assembly to be in compliance with RoHS & REACH regulations.

Sheet: 2 of 2

Tolerance (Unless Otherwise Stated): ± N?A | **Scale:** N/A | **Drawn by:** PT | **Drawn Date:** 5/23

Title: Control Drawing for the MTL5582B

Drawing Number: SCI-1087

Revision: 1

Third Angle Projection | Do Not Scale | All Dimensions in mm

Date	Modification

Eaton Electric Limited,
Great Marlings, Butterfield, Luton, Bedfordshire, England, LU2 8DL
Telephone: +44 (0)1582 723633
Web: www.mtl-inst.com | Email: mtlenquiry@eaton.com

Note 5
The MTL5582B is Associated Apparatus and when mounted in the appropriate enclosure (see notes 7 and 8) is suitable for installation in the following areas:

Non - Hazardous Locations
Class I Division 2 Groups A,B,C and D Hazardous Locations
Class I Zone 2 Hazardous Locations
Class II, Division 2, Groups F,G Hazardous Locations
Class III, Division 2, Hazardous Locations

Note 6
Associated Apparatus must be installed in accordance with the National Electrical Code (ANSI/NFPA-70) in an enclosure meeting the requirements of ANSI/ISA 61010-1.

Note 7
Use FMRC Approved or NRTL Listed dust-ignition proof enclosure(s) appropriate for environmental protection in Class II, Division 2, Groups F and G; Class III Division 2 Hazardous Locations.

Note 8
When the MTL5582B is installed in Division 2 Hazardous Locations, a warning label must be prominently affixed near the unit (s) which warns that the MTL5582B must not be removed or inserted unless the area is known to be non-hazardous.

Note 9
Installations in Canada must comply with the Canadian Electrical Code, Part 1 (CSA C22.1).

Note 10

Specific Conditions of Use:

1. For equipment installed in the United States: The equipment must be installed in an area of not more than Pollution Degree 2 as defined in IEC 60664-1, and in an enclosure that provides a degree of protection of at least IP54 and meets the relevant requirements of ANSI/UL 60079-0 and ANSI/UL 60079-15.

2. For equipment installed in Canada: The equipment must be installed in an area of not more than Pollution Degree 2 as defined in IEC 60664-1, and in an enclosure that provides a degree of protection of at least IP54 and meets the relevant requirements of CSA C22.2 No. 60079-0 and CSA C22.2 No. 60079-15.

3. All connections to the equipment must not be inserted or removed unless either the area in which the equipment is installed is known to be non-hazardous, or the circuit to which it is connected has been de-energized.

This component / assembly to be in compliance with RoHS & REACH regulations.			**Sheet:** 2 of 2
Tolerance (Unless Otherwise Stated): ± N?A	**Scale:** N/A	**Drawn by:** PT	**Drawn Date:** 5/23
Title: Control Drawing for the MTL5582B		**Drawing Number:** SCI-1087	**Revision:** 1