

1 **TYPE EXAMINATION CERTIFICATE**

2 **Equipment Intended for use in Potentially Explosive Atmospheres
Directive 94/9/EC**

3 Type Examination Certificate Number: **Baseefa12ATEX0050X**

4 Equipment: **MX2032, MX2033 & MX2034 Digital Proximity Systems**

5 Manufacturer: **Metrix Instrument Co.**

6 Address: **8824 Fallbrook, Houston, Texas, 77064. USA**

7 This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 Baseefa certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment of Category 3 intended for use in potentially explosive atmospheres given in Annex II to European Union Directive 94/9/EC of 23 March 1994.

The examination and test results are recorded in confidential Report No. **GB/BAS/ExTR12.0040/00**

9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0:2012+A11:2013 EN 60079-15:2010

except in respect of those requirements listed at item 18 of the Schedule.

10 If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

11 This TYPE EXAMINATION CERTIFICATE relates only to the design of the specified equipment and not to specific items of equipment subsequently manufactured.

12 The marking of the equipment shall include the following :

⊕ II 3G Ex nA IIC T4 Gc (-40°C ≤ T4 ≤ +85°C)

Baseefa Customer Reference No. **0708**

Project File No. **11/0418**

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GENERAL MANAGER**

On behalf of SGS Baseefa Limited

METRIX DOC NO: 1456013
REV: A

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Schedule

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Certificate Number Baseefa12ATEX0050X

15 Description of Equipment

The MX2032, MX2033 and MX2034 are normally supplied as part of the Digital Proximity System (DPS). The units comprise three potted printed circuit boards housed inside a DIN rail mountable enclosure. A coaxial RF connector is present to enable a proximity probe to be connected using an extension cable, and screw terminal plug and socket assembly accepts the user connections. The MX2034 also includes a BNC connector for dynamic output.

Rated supply voltage = 17V to 30V.

16 Report Number

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17 Specific Conditions of Use

1. The protection concept used must be irrevocably marked on the label during installation.
2. The equipment must be installed in a suitably certified enclosure such that it is afforded a degree of protection of at least IP54 in accordance with EN 60529 and EN 60079-15 and is in an area of not more than pollution degree 2, as defined in IEC/EN 60664-1.
3. External transient supply limitation must be present that clamps at no more than 42V.
4. Do not separate connectors when energised.

18 Essential Health and Safety Requirements

All relevant Essential Health and Safety Requirements are covered by the standards listed at item 9.

19 Drawings and Documents

Number	Sheet	Issue	Date	Description
Controller Drawings (MX2032, MX2033, MX2034)				
100495	1 to 4	H	March 11, 2015	Schematic, DPS, Analog/Digital Board
100496-AGENCY	1 to 9	H	02-25-14	Fabrication Dwg, Analog PCB, MX2032, MX2033 & MX2034 (Agency)
100497-AGENCY	1	D	10-22-08	Assembly, DPS, Analog/Digital Board
Controller Drawings (MX2032, MX2034)				
100497-AGENCY	-	J	4/23/2014	BOM, MX2032/2034 Controller Board
Controller Drawings (MX2033)				
100500-AGENCY	-	H	2-26-14	BOM, MX2033 Analog/digital Board (Agency)
PSU Drawings (MX2032)				
100488-AGENCY	-	F	06/28/2013	BOM, "MX2032 Power Supply Board"
100488-AGENCY	1	B	07-18-11	Assy, DPS, Power Supply Bd.
PSU Drawings (MX2033)				
100491-AGENCY	-	J	3/30/2015	BOM, "MX2033 Power Supply Board"
100491-AGENCY	1	A	02-25-14	Assy, DPS, Power Supply Bd. (Agency)
PSU Drawings (MX2034)				

Number	Sheet	Issue	Date	Description
100492-AGENCY	1 & 2	G	07-18-11	Schematic, DPS, Power Supply Bd.
100494-AGENCY	-	H	2/26/2014	BOM, "MX2034 Power Supply Board"
100494-AGENCY	1	B	07-18-11	Assy, DPS, Power Supply Bd.
100493-AGENCY	1 to 9	D	06-13-13	Drill Dwg, Power Supply, MX2034 (Agency)
PSU Drawings (MX2032 & MX2033)				
100486-AGENCY	1	H	March 30, 2015	Schematic MX2032 and MX2033 Power Supply Board
100487-AGENCY	1 to 9	F	02-25-14	Drill Dwg, Power Supply, MX2032 & MX2033 (Agency)
Interconnect Drawings (MX2032, MX2033, MX2034)				
100501-AGENCY	1	B	05-20-11	Schematic, DPS, Interconnect Bd.
100502-AGENCY	1 to 9	B	02/25/14	Drill Dwg, Interconnect PCB, MX2032, MX2033 & MX2034 (Agency)
100503 AGENCY	-	C	2/25/2014	BOM, DPS, Interconnect Board (agency)
100503-AGENCY	1	A	02-25-14	Assy, DPS, Interconnect Bd. (Agency)
General (MX2032, MX2033, MX2034)				
100563-XXX-AGENCY	1 & 2	A	02/25/14	Label, MX2032, MX2033 & MX2034 (Agency)
100511-XXX-AGENCY	1 & 2	A	08/11/14	Label, Top, DPS (AGENCY)
1082695-AGENCY	1	D	05/23/11	General Arrangement Drawing
9639-AGENCY	001	A	02-26-14	Adapter Board
These drawings are held with IECEx BAS 12.0032X and are common to IECEx BAS 12.0033X & Baseefa12ATEX0049X.				