1 II 3 GD

Certificate

2 Document number GE10ATEX8127X Issue 3

3 European Community Declaration of Conformity for Group II Category 3 GD equipment in accordance with Directive 94/9/EC.

4 Declaration relating to: 8127-DI-SE 32-channel Switch/Proximity Detector, with Sequence of Events.

5 Assessed and Manufactured by: GE Intelligent Platforms, 2500 Austin Drive, Charlottesville, Virginia 22911, USA

6 This apparatus fulfils all the requirements for Group II, Category 3 G equipment in accordance with Directive 94/9/EC. The design complies with EN 60079-11: 2012 & EN 60079-15:2010 (EN 60079-15:2005 for Legacy 'nL' installations). The design is fully documented in GE Intelligent Platforms Technical File Number TF8125.

7 The apparatus in normal operation provides non-sparking connections to the Bussed Field power supply, and energy-limited and ic connections to the field circuits and Railbus Power Supply. In normal operation the apparatus is incapable of producing arcs, sparks or hot surfaces which may cause ignition and is designed to be installed and used in accordance with standards EN 60079-14:2008 & EN 60079-25: 2010 and installation drawing no. SCI-1530. Note Special Condition of Safe Use (b) regarding de-energisation of Bussed Field Power.

8 The required marking of the apparatus is specified in GE Intelligent Platforms Technical File Number TF8125 and includes the distinctive community mark:

9 In addition, the marking includes the CENELEC code Ex [ic] nA [nL] IIC T4.
The energy-limited and ic (intrinsically safe) field wiring parameters for the different combinations of field connections are given in drawing SCI-993, attached.

The CENELEC marking [nL] is retained for use in legacy installations. For new installations the product is marked '[ic]'

10 The ambient temperature range for the apparatus in normal orientation is –40°C to +70°C, and in any other orientation is –40°C to +50°C.

11 Manufacture is controlled by an ISO9001:2008 approved system, and is externally audited by CSA and FM.

12 The apparatus meets the ATEX Directive requirements for electromagnetic radiation by complying with the EMC Directive 2004/108/EC.

13 The standards published in the Official Journal of the European Commission with reference to the Low Voltage Directive 2006/95/EC have been used to fulfil 1.2.7 of Annex II of directive 94/9/EC to eliminate electrical risks.

14 <u>Special Conditions of Safe Use</u>

a. The apparatus must be installed in an enclosure or an environment that provides a degree of protection not less than IP54 when used in Zone 2. The area must be no more than pollution Degree 2 as defined by EN 60664-1.The product <u>must not</u> be inserted onto or removed from its carrier unless either
   i) The area in which it is installed is known to be non-hazardous, or
   ii) The Bussed Field Power Supply has been de-energised.
b. In order to comply with the transient requirements, the voltage for this apparatus must be provided by regulated power supply units complying with the requirements of European Community Directives.
c. The Bussed Field Power supply voltage must be no more than 30Vdc in order that the maximum value of Uo is not exceeded. The power supplies which provide this voltage must operate within their output current ratings.
d. This apparatus may be mounted in a Zone 22 environment when protected by an additional enclosure as defined in EN 60079-31:2009 for protection by enclosure "t". Refer to this standard for full details, for example IIIC gases will require ingress protection IP6X from the additional enclosure.
e. The apparatus must be used with the 8617-FT-NI or 8619-FT-MT field terminals.
f. This device needs Bussed Field Power terminals classified as non-arcing (nA). Install the apparatus on a carrier which has all other apparatus with non-arcing Bussed Field Power only. Do not install this apparatus on a carrier which has other apparatus having intrinsically safe (ic) Bussed Field Power.

g. Ensure that the cable going to non-arcing Bussed Field Power terminals and intrinsically safe Bussed Field Power terminal are routed through separate conduits.
h. Where the interconnecting cable utilizes part of a multi-core cable containing other intrinsically safe circuits, then the multi-core cable shall be in accordance with the requirements of a multi-core cable type A or B, as specified in Clause 9 of IEC 60079-25.
i. A multi-core cable containing circuits classified as level of protection “ia”, “ib” or “ic” shall not contain non-intrinsically safe circuits.

Srinivas Kodagandla……. Date 24th May 2013
Technology Manager-Quality & Regulatory

Revision History

Issue	Date	Remarks
1	18th August 2011	First GE Intelligent Platforms version.
2	30th April 2013	CENELEC marking ic added with assessment note in section 6, 7, 9 and section 14.
3	24th May 2013	Reference to installation drawing SCI-1530 added in section 7.