ATEX II 3 G Certificate

RELC11ATEX1010X

We, Relcom, hereby declare that the following equipment complies with Directive 2014/34/EU (ATEX):

F3xx[-aa][-b][-cc] and F97

xx **indicates the number of spurs (04, 08, or 12)**

-aa **blank for over-voltage protection**
-V2 for no over-voltage protection

-b **-T for optional built-in terminator,**
blank for no built-in terminator

-cc **blank for standard pluggable screw terminal connectors**
-PC for pluggable spring clamp connectors
-PD for pluggable insulation displacement connectors

F97 **The F97 is an accessory for the F3xx products. It is certified as part of the F3xx certification; however, it is not marked to be a stand-alone certified product.**

Manufactured by:
Relcom Inc., 2221 Yew St., Forest Grove, OR, 97116, USA
Eaton Electric Limited, Great Marlings, Butterfield, Luton Beds. LU2 8DL. UK

Authorized Representative in the EU:
Eaton Electric Limited, Great Marlings, Butterfield, Luton Beds. LU2 8DL. UK

This equipment fulfills all the requirements for Group II, Category 3 G equipment in accordance with Directive 2014/34/EU. The equipment complies with:

EN 60079-0:2018
EN 60079-7:2015/A1:2018
EN 60079-11:2012
EN 60079-15:2010

The design is documented in the Relcom Technical File No. 502-460.

Manufacture is internally controlled by a Quality System modeled after ISO 9001:2015 and EN ISO/IEC 80079-34:2018.

The apparatus is designed to be installed and used in accordance with EN 60079-14.

The ambient operating temperature range is -50ºC to +70ºC.

The safety markings for the F3xx apparatus with overvoltage protection, **Ex nA [ic] IIC T4 Gc**, **Ex nA IIC T4 Gc, Ex ec IIC T4 Gc, Ex ec [ic] IIC T4 Gc,** and **FISCO Ex ic IIC T4 Gc** are specified in the Technical File (Document No. 502-460).

The safety markings for the F3xx apparatus without overvoltage protection, **Ex nA IIC T4 Gc, and Ex ec IIC T4 Gc** and **FISCO Ex ic IIC T4 Gc**, are also specified in the Technical File (Document No. 502-460).

All versions also include the distinctive community marks:

II 3 G

General notes

- The 'nA' relates to the option of using a non-arcing trunk and spurs.
- The 'ec' relates to increased safety for explosive atmospheres.
- The 'ic' relates to the energy-limited spurs and the alternative use of an energy-limited trunk.

Notes for **Ex nA [ic] IIC T4 Gc,** and **Ex ec [ic] IIC T4 Gc**

- These markings do not apply to the F3xx versions without overvoltage protection.
- The permitted input parameters from the trunk are: Ui (gas group IIC):24V, Ui (gas groups IIB, IIA):32V, Ii:2A, Li and Ci are negligible.
- The parameters of the energy limited spur are: The voltage Uo = Megablock input voltage. The apparatus supplying the input voltage must provide voltage limiting meeting IEC 60079-11 requirements. Io:56mA, Lo (gas group IIC):0.15mH, Lo (gas groups IIB, IIA):0.26mH, Co:80nF.

Notes for **Ex nA IIC T4 Gc,** and **Ex ec IIC T4 Gc**

- The permitted input parameters from the trunk are: Ui:32V, Ii:2A.

Notes for **FISCO Ex ic IIC T4 Gc**

- The installation shall comply with EN 60079-11.

The apparatus meets the ATEX Directive requirements for personnel protection by complying with the LVD Directive 2014/35/EU. The personnel safety standards of EN 61010-1 are also met by the apparatus.

Specific Conditions of Safe Use:

- The apparatus is to be installed in an enclosure which maintains a minimum ingress protection rating of IP54 and meets the enclosure requirements of EN 60079-0, EN 60079-11, and EN 60079-15 as appropriate for the installation.
- The apparatus shall only be used in an area of at least pollution degree 2, as defined by EN 60664-1.
- Provisions shall be made externally to the apparatus to prevent the rated input being exceeded by transient disturbances of more than 140% of the rated voltage.

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M. Strauser
EX Representative

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