



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

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

Certificate No.:	IECEx LCI 11.0068X	Issue No: 2	Certificate history:
Status:	Current	Page 1 of 4	Issue No. 2 (2017-04-07)
Date of Issue:	2017-04-07		Issue No. 1 (2017-02-28)
Applicant:	Relcom Inc. 2221 Yew Street Forest Grove OR 97116 United States of America		Issue No. 0 (2012-01-03)
Equipment:	Interconnection block for fieldbus, F200-IS Megablocks - Type: F***-IS-**-**		
Optional accessory:			
Type of Protection:	Ex ia		
Marking:	FISCO Field Device or FISCO Terminator Ex ia IIC T4 Ga -50°C ≤ Tamb ≤ +70°C (see attachment for full marking)		

Approved for issue on behalf of the IECEx
Certification Body:

Julien GAUTHIER

Position:

Certification Officer

Signature:
(for printed version)

Date:

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.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

Laboratoire Central des Industries Electriques (LCIE)
33 Avenue du General Leclerc
FR-92260 Fontenay-aux-Roses
France





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Manufacturer: **Relcom Inc.**
2221 Yew Street
Forest Grove
OR 97116
United States of America

Additional Manufacturing location(s):

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 electrical apparatus 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 : 2011 Explosive atmospheres - Part 0: General requirements

Edition:6.0

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

Edition:6.0

*This Certificate **does not** indicate compliance with electrical 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:

[FR/LCIE/ExTR17.0027/00](#)

Quality Assessment Report:

[FR/LCI/QAR06.0002/07](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The apparatus is a field bus interconnection block for an industrial plant. It is powered by intrinsic safety sources provided by a Fieldbus entity or a FISCO isolator. The input is the bus connection, the outputs feed Fieldbus devices.

(See attachment for full description)

SPECIFIC CONDITIONS OF USE: YES as shown below:

- The equipment must be only connected to a certified associated intrinsically safe equipment. This combination must be compatible as regards intrinsic safety rules (see intrinsic safety parameters).
- The equipment must be mounted inside an enclosure allowing to avoid electrostatic charging hazard.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Issue 00 (2012-01-03): Initial issue.

- Conformity assessment according to IEC 60079-0:2007-10 Edition 5, IEC 60079-11:2006 Edition 5 and IEC 60079-27:2005-04 Edition 1.0 standards.

Issue 01 (2017/02/28):

- Normative update according to IEC 60079-0:2011 Edition 6.0 and IEC 60079-11:2011 Edition 6.0 standards.
- Removal of IEC 60079-27:2005-04 Edition 1.0 standard, requirements for FISCO bus are now included in IEC 60079-11:2011 Edition 6.0 standard.
- Extension of temperature range, minimum temperature is modified from -45°C to -50°C.
- Introduction of new plastic enclosure.
- Full potting is suppressed, only potting on limited area of the electronic board.
- Modification of spur output fuses.
- Miscellaneous electronic circuit changes.
- Eliminate some models of the product, for instance: switchable terminator and 'smart' versions.
- Introduction of an optional suffix '-6' to models for 60 mA maximum current versions.

Issue 02: Current issue

- Change of printed circuit board technology from double sides boards to four layers boards for an Electromagnetic Compatibility (EMC) purpose.

Annex:

[LCI 11.0068X - Issue 02 - Annex 01.pdf](#)



Annex 01 to Certificate IECEx LCI 11.0068X issue 02



LCIE

FULL EQUIPMENT DESCRIPTION

The apparatus is a field bus interconnection block for an industrial plant. It is powered by intrinsic safety sources provided by a Fieldbus entity or a FISCO isolator. The input is the bus connection, the outputs feed Fieldbus devices.

Apparatus exists in three output configurations 4, 8 and 12 ports with same electrical schematic for each port. Electronic board is mounted into plastic enclosure providing IP 20 minimum protection index.

Title:	Drawing No.:	Rev. Level:	Date:
*Technical File	503-319	B.0	2017/03/08
*ATEX Installation instructions	502-999	A.0	2016/12/16
*IECEx Installation instructions	503-320	A.0	2016/12/16

MARKING

Relcom Inc. or EATON (trademark)

Address: ...

Type: F***-IS-**-**

Serial number: ...

Year of construction: ...

FISCO Field Device or FISCO Terminator

Ex ia IIC T4 Ga

IECEx LCI 11.0068X

-50°C ≤ Tamb ≤ +70°C

Fieldbus entity: U_i : 24V; I_i : 250mA; P_i : 1.2W; C_i : 0nF; L_i : 0μH

FISCO: U_i : 17.5V; I_i : 380mA; P_i : 5.32W; C_i : 0nF; L_i : 0μH

Install per document 502-999

RANGE DETAILS

F***-IS - ** - **

PC : Pluggable spring clamp connector

6 : Maximum spur current 60mA

Model :

F245-IS	4 Ports	No terminator
F247-IS	4 Ports	Terminator
F251-IS	8 Ports	No terminator
F253-IS	8 Ports	Terminator
F269-IS	12 Ports	No terminator
F271-IS	12 Ports	Terminator

Terminator is a dynamic load for the fieldbus only necessary for the apparatus located at the extremity of the bus.

RATINGS

Apparatus can be powered by two different types of certified power supplies with following intrinsic safety parameters:

Entity parameters, linear resistive power supply: U_i : 24V; I_i : 250mA; P_i : 1.2W; C_i : 0nF; L_i : 0μH

FISCO application, non-linear power supply: U_i : 17.5V; I_i : 380mA; P_i : 5.32W; C_i : 0nF; L_i : 0μH

ROUTINE TESTS

None.

APPARATUS OVERVIEW

Following drawing is related to the 12 ports version of the equipment (4 and 8 ports versions are similar, smaller enclosures with the same width).

