

# ATEX Category 3 Certificate

Certificate of Conformity for Group II Category 3 G equipment in accordance with Directive 2014/34/EU.

Certificate relating to the following products:-

**FCS-9512-222 to -241 Megablock Enclosure, 12-spur**

This equipment fulfils all the requirements for Group II, Category 3 G equipment in accordance with Directive 2014/34/EU when installed according to the Special Conditions of Safe Use listed below. The design complies with EN IEC 60079-0:2018, EN IEC 60079-7:2015+A1:2018, EN 60079-11:2012 and EN 60079-15:2010. The analysis is fully documented in Technical File TF\_FCS9512222.

The connections of this equipment are non-sparking and increased safety in normal operation. The equipment in normal operation is incapable of producing arcs, sparks or hot surfaces which may cause ignition and is designed to be installed and used in accordance with EN 60079-14:2014. Note Special Conditions of Safe Use below.

The required marking of the apparatus is as specified in the Technical File referenced above and includes the distinctive community mark:



In addition, the marking will include the CENELEC codes:

**Ex ec nA [ic] IIC T4 Gc**

The nA and ec applies to the non-sparking and increased safety trunk connections, and also signifies that the equipment is incapable in normal operation of producing sparks or hot surfaces that may cause ignition. The [ic] applies to intrinsically safe spur connections.

The ambient temperature limitation for the equipment is -40°C to +60°C.

Manufacture is controlled by an ISO9001:2015 approved system.

The apparatus meets the ATEX Directive requirements for electromagnetic radiation by complying with the EMC Directive 2014/30/EU.

The standards published in the Official Journal of the European Commission with reference to the Low Voltage Directive 2014/35/EU have been used to fulfil the requirements of 1.2.7 of Annex II of directive 2014/34/EU to avoid electrical risks.

If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to Special Conditions of Safe Use specified elsewhere in this certificate.

### **Input Parameters**

Trunk Input (For each F30 ic Adapter fitted):

Rated Input Voltage = 24Vdc

Rated Current = 200mA

Max. Power = 2W

'ic' Fieldbus Spurs (Each O/P Spur on the Megablock):

Uo = 17.5V      Co = 80nF

Io = 56mA      Lo = 0.15mH

Po = 1.344W

### **Internal Components**


May be fitted with up to 2 off certified MTL F30 ic Adapters which may optionally be fitted with F97 Terminators. Each Adapter Trunk Input may be fitted with an Ex ec certified Eaton Electric Limited FS32 Surge Protection Device.

May be fitted with up to 2 off F304, F308 or F312 Ex nA [ic] certified Relcom F300 Series Megablocks. Each Megablock output spur may be fitted with an Ex ia certified Eaton Electric Limited FS32 Surge Protection Device.



### **Special Conditions of Safe Use**

- 1) The equipment must be installed in an area of pollution degree 2 or better, as defined in IEC 60664-1.
- 2) The equipment shall be effectively earth bonded prior to use. It may not be capable of withstanding the 500V dielectric strength test in accordance with clause 7.1 of EN IEC 60079-7 and this must be taken into account during installation.
- 3) The enclosure shall not be fitted with flat gasket 2 or plastic washer 1 as detailed in IECEx BVS 13.0026U.
- 4) The enclosure lid must be opened and closed in a vertical position so that the hinges are protected against excessive mechanical forces.
- 5) All non-1.S. 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-energised. These connections must always have their IP30 covers in place.
- 6) Unused terminals inside the equipment shall be tightened.



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