

EU - TYPE EXAMINATION CERTIFICATE

Equipment or Protective System Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

EU - Type Examination Certificate **Baseefa03ATEX0108X – Issue 1**
Number:

In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Supplementary Certificates to such EC-Type Examination Certificates, and new issues of such certificates, may continue to bear the original certificate number issued prior to 20 April 2016.

Product: **Entity Spur Connector Type 9321-SC and Ex ia Spur Connector Type 9322-SC**

Manufacturer: **Eaton Electric Limited**

Address: **Great Marlings, Butterfield, Luton, Bedfordshire, LU2 8DL United Kingdom**

This re-issued certificate extends EC Type Examination Certificate No. **Baseefa03ATEX0108X** to apply to product designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

SGS Fimko Oy, Notified Body number 0598, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The original certificate was issued by SGS Baseefa Ltd (UK Notified Body 1180). It, and any supplements previously issued by SGS Baseefa Ltd have been transferred to the supervision of SGS Fimko Oy (EU Notified Body 0598). The original certificate number is retained.

The examination and test results are recorded in confidential Report No. **See Certificate History**

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

EN IEC 60079-0: 2018 EN 60079-11: 2012

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

If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

This EU - TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

The marking of the product shall include the following:

Ex II 1 G Ex ia IIC T4 Ga (-40 °C ≤ Tamb ≤ +70 °C)

SGS Fimko Oy Customer Reference No. **0703**

Project File No. **23/0163**

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13 **Schedule**

14 **Certificate Number Baseefa03ATEX0108X – Issue 1**

15 **Description of Product**

The Entity Spur Connector Type 9321-SC and Ex ia Spur Connector Type 9322-SC are FISCO devices certified to the requirements of EN 60079-11 Annex G.

The equipment consists of components mounted on a printed circuit board housed within an IP20 enclosure formed by two moulded plastic parts that clip together. The complete assembly permits mounting on a DIN rail.

Electrical connections are made through means of a terminal where the input is marked as “Field” and the output terminals of the devices are marked “Trunk”. A third, common connection is used, identified as the screen.

The equipment has the following parameters:

Entity Spur Connector Type 9321-SC Entity Parameters

Input Parameters (FIELD + & -)	Output Parameters (TRUNK + & -)
$U_i = 30 \text{ V}$	$U_o = U_i$
$I_i = 1.4 \text{ A}$	$I_o = I_i$
$C_i = 0 \text{ F}$	$P_o = U_i \times 0.085$
$L_i = 0 \text{ H}$	$C_o = \text{See Note}$
	$L_o = \text{See Note}$

Note; Maximum output capacitance (C_o) and maximum output inductance (L_o) are the same as the output parameters of the certified power supply connected at the input terminals (FIELD + & -). Both the input and output circuits form part of the same intrinsically safe circuits.

Ex ia Spur Connector Type 9322-SC Entity Parameters

Input Parameters (FIELD + & -)	Output Parameters (TRUNK + & -)
$U_i = 17.50 \text{ V}$	$U_o = U_i$
$I_i = 380 \text{ mA}$	$I_o = I_i$
$C_i = 0 \text{ F}$	$P_o = 1.84 \text{ W}$
$L_i = 0 \text{ H}$	$C_o = \text{See Note}$
	$L_o = \text{See Note}$

Note; Maximum output capacitance (C_o) and maximum output inductance (L_o) are the same as the output parameters of the certified power supply connected at the input terminals (FIELD + & -). Both the input and output circuits form part of the same intrinsically safe circuits.

16 **Report Number**

See Certificate History

17 **Specific Conditions of Use**

1. The plastic enclosure is a potential electrostatic hazard. Clean only with a damp cloth and do not mount in a high velocity dust laden atmosphere.

18 **Essential Health and Safety Requirements**

In addition to the Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9, the following are considered relevant to this product, and conformity is demonstrated in the report:

Clause	Subject
1.27	LVD type requirements
1.2.8	Overloading of equipment (protection relays, etc.)

Clause	Subject
1.4.1	External effects
1.4.2	Aggressive substances, etc.

19 Drawings and Documents

New drawings submitted for this issue of certificate:

Number	Sheet	Issue	Date	Description
CI9321-1	1 & 2	2	7.23	Type 9321-SC Entity Spur Connector General Assembly, Circuit Diagram, Parts List and PCB Layout
CI9321-2	1 of 1	3	4.23	50 mA Encapsulated Fuse
CI9322-1	1 & 2	2	7.23	Type 9322-SC Entity Spur Connector General Assembly, Circuit Diagram, Parts List and PCB Layout
CI9322-2	1 of 1	3	4.23	100 mA Encapsulated Fuse

No current drawings were unaffected by this issue.

The drawings are also common to IECEx SGS 23.0003X.

20 Certificate History

Certificate No.	Date	Comments
Baseefa03ATEX0108X	21 March 2003	The release of the prime certificate. The associated test and assessment against the requirements of EN 50014: 1997 + Amds 1 & 2, EN 50020: 2002 and EN 50284: 1999. The test and assessment conducted is documented in Test Report No. 03(C)0156 and held with Project No. 03/0156.
Baseefa03ATEX0108X Issue 1	24 July 2023	This issue of the certificate confirms the current design meets the requirements of EN IEC 60079-0: 2018 and EN 60079-11: 2012 including the revision of the equipment marking in accordance with these standards. The test and assessment conducted is documented in IECEx ExTR GB/BAS/ExTR23.0003/00 and held with Project No. 23/0163.

For drawings applicable to each issue, see original of that issue.