



1 **EC TYPE-EXAMINATION CERTIFICATE**

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 94/9/EC

3 Certificate Number: **Sira 15ATEX1010X** Issue: **0**

4 Equipment: **EL120 Linear Actuators & ER120 Rotary Actuators**

5 Applicant: **Exlar Corporation**

6 Address: **18400 West 77th Street
Chanhassen
MN 55317
U.S.A.**

7 This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 Sira Certification Service, notified body number 0518 in accordance with Article 9 of Directive 94/9/EC of 23 March 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 14.2.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule to this certificate, has been assured by compliance with the following documents:

EN 60079-0:2012/A11:2013 EN 60079-1:2007

The above list of documents may detail standards that do not appear on the UKAS Scope of Accreditation, but have been added through Sira's flexible scope of accreditation, which is available on request.

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

11 This EC type-examination certificate relates only to the design and construction of the specified equipment. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment.

12 The marking of the equipment shall include the following:



II 2G
Ex d IIB+H2 T4 Gb
-29°C ≤ Ta ≤ +93°C

Project Number 70010942

A C Smith
Certification Manager

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SCHEDULE

EC TYPE-EXAMINATION CERTIFICATE

Sira 15ATEX1010X
Issue 0

13 DESCRIPTION OF EQUIPMENT

The EL120 (linear) and ER120 (rotary) series actuators are IP66, brushless, servo motor powered electro-mechanical, bi-directional actuators which comprise of four main parts as follows:

- End Cap Housing, containing the electrical components.
- Case (motor housing)
- Face Plate.
- End Plate.

These four main parts are manufactured from aluminium whilst the linear and rotary shafts comprise of stainless steel or steel.

Both the EL120 and ER120 have a Manual Drive Shaft option. In this configuration, the Manual Drive Shaft Housing is fastened between the End Cap Housing and Case (motor housing) of the actuator. The Manual Drive Shaft Housing is manufactured from aluminium and the Hand Crank Shaft material is stainless steel.

The non-electrical equipment in these actuators is not within the scope of this certification.

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Sira Reports and Certificate History

Issue	Date	Report number	Comment
0	26 March 2015	R70010942A	The release of the prime certificate.

15 SPECIAL CONDITIONS FOR SAFE USE (denoted by X after the certificate number)

ER120 Rotary Actuator

15.1. At the cable entry point the surface temperature may reach up to 105°C, therefore, supply cable and entries shall be selected accordingly.

15.2. Due to the requirements of clause 5.1 of EN 60079-1:2007, it shall be pointed out that the joint dimensions of the flameproof enclosure deviate from the values in tabulated in EN 60079-1. Any maintenance of the critical dimensions of the flamepaths shall not be undertaken without seeking guidance from the manufacturer of the equipment.

15.3. Special Fasteners Yield Strength:

(4X) Tie Rod	(4X) Tie Rod Washer	(4X) Tie Rod Nut
800 Mpa	500 MPa	700 MPa
(8X) Face Plate	(4X) Manual Drive Shaft Housing	(8X) Attach Plate
700 MPa	695 MPa	700 MPa

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Sira Certification Service

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SCHEDULE

EC TYPE-EXAMINATION CERTIFICATE

Sira 15ATEX1010X
Issue 0

EL120 Linear Actuator

- 15.4. At the cable entry point the surface temperature may reach up to 105°C, therefore, supply cable and entries shall be selected accordingly.
- 15.5. Due to the requirements of clause 5.1 of EN 60079-1:2007, it shall be pointed out that the joint dimensions of the flameproof enclosure deviate from the values tabulated in EN 60079-1. The only component that is allowed to be maintained is the removal of the gland assembly for re-greasing as defined in the User Manual. As this is the only joint allowed for maintenance the joint dimensions are detailed as follows:

Joint	Design Gap Maximum	Design Length (min)
Gland Assembly/Face Plate	0.033 mm	30.0 mm

- 15.6. Special Fasteners Yield Strength:

(4X) Tie Rod	(4X) Tie Rod Washer	(4X) Tie Rod Nut
800 Mpa	500 MPa	700 MPa
(8X) Gland Assembly	(4X) Manual Drive Shaft Housing	
695 MPa	695 MPa	

16 ESSENTIAL HEALTH AND SAFETY REQUIREMENTS OF ANNEX II (EHSRs)

The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed in the reports listed in Section 14.2.

17 CONDITIONS OF CERTIFICATION

- 17.1 The use of this certificate is subject to the Regulations Applicable to Holders of Sira Certificates.
- 17.2 Holders of EC type-examination certificates are required to comply with the production control requirements defined in Article 8 of directive 94/9/EC.

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Certificate Annexe

Certificate Number: Sira 15ATEX1010X
Equipment: EL120 Linear Actuators & ER120 Rotary Actuators
Applicant: Exlar Corporation



Issue 0

Drawing	Sheets	Rev.	Date (Sira Stamp)	Title
60997	1 to 8	C	13 Mar 15	Schedule Drawing EL120
61910	1 to 8	C	13 Mar 15	Schedule Drawing ER120 Rotary Actuator
61260	1 to 2	D	13 Mar 15	Label CSA EL120

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