



EU-TYPE EXAMINATION CERTIFICATE

1

2 Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014

3 EU-Type Examination Certificate Number: **Sira 10ATEX1037X** Issue: **5**

4 Equipment: **EL 100 Linear Actuator**

5 Manufacturer: **Exlar Corporation**

6 Address: 18400 West 77th Street
Chanhassen
MN 55317
USA

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

8 CSA Group Netherlands B.V., Notified Body No. 2813 in accordance with Article 17 of the 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 examination and test results are recorded in the confidential reports listed in item 16.2.

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

EN 60079-0:2012 EN 60079-1:2007

Where additional criteria beyond those given here have been used, they are listed in item 18 in the Schedule.

10 If the sign "X" is placed after the certificate number, it indicates that the product is subject to the "Specific Conditions of Use" listed in item 17 of this certificate.

11 This EU-Type Examination Certificate relates only to the technical design of the specified product in accordance with the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this product, these are not covered by this certificate.

12 The marking of the product shall include the following (additional marking is provided in the Schedule as a part of item 15, if applicable):



II 2 G
Ex d IIB+H₂ T3 Gb IP66
(Ta = -29°C to +93°C)

Signed: M Halliwell
Title: Senior Director of Operations
Date: 30 January 2026



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13

SCHEDULE

14 **EU-Type Examination Certificate Number:** Sira 10ATEX1037X Issue: 5

15 **Description:**

The EL100 Linear Actuator consists of an enclosure assembly, incorporating a resolver, stator, terminal blocks, thermal switch and rear brake. The enclosure assembly incorporates a roller screw mechanism within the armature of a brushless servo motor. The EL100 Linear Actuator is connected to a servo drive controller which commutates the motor and controls the torque, speed and position of the actuator. This rotary motion is translated into linear motion by an internal planetary roller screw mechanism. The actuator and a controller combine to provide a complete motion control system. The electrical to mechanical power conversion and position feedback devices are contained in the actuator.

24-120 V dc – 25 A Max, 2420 W Max
115-460 V ac, 50 / 60 Hz, 25 A Max, 2420 W Max

All bolt fasteners are z plated carbon steel to ISO 4017, grade 10.9

Model Code information

EL100-06-x-a-x-x-x-2-b-8-c-x-T3-x

a - denotes Connections, where:

T = Terminal Strip with 3/4" NPT housing access, Two Rows

S = Terminal Strips with 3/4" NPT housing access, Single Row

b - denotes Voltage Rating, where:

A = 24 V dc

B = 48 V dc

C = 120 V dc

1 = 115 V rms

3 = 230 V rms

5 = 400 V rms

6 = 460 V rms

X = Special Voltage Rating - Not to Exceed 460 V rms

c - denotes Optional Mechanical and Speed Designations, where:

RB = Rear Brake

1-99 = Speed (# x 100 = RPM)

PF = Preloaded Follower

AR = External Anti Rotate Assembly

XT = Special Travel Options

XL = Special Lubricant

x – denotes Options Not Affecting Safety

Variation 1 - This variation introduced the following changes:

- i. The address of the Applicant was changed from 1470 Lake Dr W, Chanhassen, MN 55317, USA to 18400 West 77th Street, Chanhassen, MN 55317, USA.



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Variation 2 - This variation introduced the following changes:

- i. The addition of Hydrogen to the gas group, the update of standard EN 60079-0:2009 to EN 60079-0:2012 and the introduction of a Condition of Certification.

Variation 3 - This variation introduced the following changes:

- i. Minor editorial modification to schedule drawings.

Variation 4 - This variation introduced the following changes:

- i. Replace existing material 660 Bronze with new Tin Bronze material for the 20mm rod Bushing PN 43770.

16 **Drawings and documents:**

16.1 **Technical documents:**

Refer to Certificate Annex.

16.2 **Associated reports and certificate history:**

Issue	Date	Report number	Comment
0	17 March 2010	R21426A/00	The release of the prime certificate.
1	20 May 2011	R25114A/00	The introduction of Variation 1
2	15 August 2014	R70004661A	This Issue covers the following changes: <ul style="list-style-type: none"> • Drawing No. TR163694-2170734 detailed in the Annexe, Issue 1, was corrected to read 86 61106P00-O. • The introduction of Variation 2.
3	15th October 2019	1829	This Issue covers the following changes: <ul style="list-style-type: none"> • Transfer of certificate Sira 10ATEX1037X from Sira Certification Service to CSA Group Netherlands B.V.. • EC Type-Examination Certificate in accordance with 94/9/EC updated to EU Type-Examination Certificate in accordance with Directive 2014/34/EU. (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. Variations to such EC Type-Examination Certificates may continue to bear the original certificate number issued prior to 20 April 2016.)
4	16 April 2025	R80239576A	The introduction of Variation 3.
5	30 January 2026	R80277087A	The introduction of Variation 4.

17 **Specific conditions of use** (denoted by "X" after the certificate number):

- 17.1 At the cable entry point the surface temperature may reach up to 125°C, therefore, supply cable and entries shall be selected accordingly.
- 17.2 The maximum voltage and current ratings marked on the equipment shall not be exceeded.



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- 17.3 In accordance with clause 5.1 of EN 60079-1:2007, any maintenance of the critical dimensions of the flamepaths shall not be undertaken without seeking guidance from the manufacture of the equipment.
- 18 **Essential health and safety requirements of Annex II** (EHSRs):
The relevant EHSRs that are not addressed by the standards listed in item 9 of this certificate have been identified and conformity of the product demonstrated in the reports listed in item 16.2.
- 19 **Remarks and additional information:**
The use of this certificate is subject to the regulations applicable to holders of CSA Group Netherlands B.V. certificates.
Compliance of the product with the applicable safety requirements of the relevant industrial standards has not been verified and is not covered by this certificate.
- 19.1 **Conditions of manufacture:**
- 19.1.1 The maximum voltage and current ratings marked on the equipment shall not contradict the 2420 W maximum power rating allowed for this equipment, in addition, the products that incorporate Allen Bradley 1492-LMJ3 terminals shall be limited to 20 A and marked accordingly.
- 19.1.2 Any greases applied to the flamepaths shall not harden, contain evaporating solvents and do not cause corrosion to the joint surfaces can be utilised.



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Certificate Annexe

Document History

Issue – 0

Documents Introduced or Revised

Drawing	Sheets	Rev.	Date (Stamp)	Title
17308	1 of 1	A	02 Mar 10	Resolver – Deltran PT – Harowe
17309	1 of 1	A	02 Mar 10	Resolver – Deltran PT – Harowe
17310	1 of 1	A	02 Mar 10	Resolver – Deltran PT – Harowe
17312	1 of 1	A	02 Mar 10	Resolver – Deltran PT – Harowe
23064	1 of 1	A	02 Mar 10	Resolver – LTN
39955	1 of 1	A	02 Mar 10	Stator
39975	1 of 1	A	02 Mar 10	Housing, Machined
39976	1 of 1	A	02 Mar 10	Cover, Machined
39989	1 of 1	A	02 Mar 10	Tie Rod, M8X1.25 x 11.80
40093	1 of 1	A	02 Mar 10	Screw, M8x1.25x20, HHCS, ISO 4017
42289	1 of 1	A	02 Mar 10	Label
43766	1 of 1	A	02 Mar 10	Face Plate
43767	1 of 1	A	02 Mar 10	Case
43768	1 of 1	A	02 Mar 10	End Plate
43769	1 of 1	A	02 Mar 10	Main Rod 20mm
43770	1 of 1	A	02 Mar 10	Rod Bushing 20mm
43774	1 of 1	A	02 Mar 10	Housing, RB, Machined
43846	1 of 1	A	02 Mar 10	Nut, M8, ISO 4032
43941	1 of 1	A	02 Mar 10	Tie Rod, M8X1.25 x 14.10
TR163694-2170734	1 of 1	e	02 Mar 10	High Torque Rear Brake

Issue – 1

Documents Introduced or Revised

Drawing	Sheets	Rev.	Date (Stamp)	Title
42289	1 to 3	B	20 May 11	Label CSA EL100

Issue – 2

Documents Introduced or Revised

Drawing	Sheets	Rev.	Date (Stamp)	Title
42289	1 of 4	D	05 Aug 14	Label
86 61106P00-O	1 of 1	E	17 Jul 14	High Torque Rear Brake

Issue – 3 – No new drawings introduced.

Issue – 4

Documents Introduced or Revised

Drawing	Sheets	Rev.	Date (Stamp)	Title
39955	1 to 1	B	28 Mar 25	Stator, 2A8-20
39975	1 to 2	K	28 Mar 25	Housing, Machined
39976	1 to 1	H	28 Mar 25	Cover, Machined
39989	1 to 1	C	28 Mar 25	Tie Rod, M8X1.25 x 11.80

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Drawing	Sheets	Rev.	Date (Stamp)	Title
42289	1 to 4	G	28 Mar 25	Label, CSA, EL100
43766	1 to 1	C	28 Mar 25	HazLocDoc, Face Plate
43767	1 to 1	B	28 Mar 25	HazLocDoc, Case
43768	1 to 1	B	28 Mar 25	HazLocDoc, End Plate
43769	1 to 1	B	28 Mar 25	HazLocDoc, Main Rod 20mm
43770	1 to 1	B	28 Mar 25	HazLocDoc, Rod Bushing 20mm
43774	1 to 2	E	28 Mar 25	Housing, RB, Machined
43941	1 to 1	B	28 Mar 25	Tie Rod, M8X1.25 x 14.10

Issue – 5

Documents Introduced or Revised

Drawing	Sheets	Rev.	Date (Stamp)	Title
43770	1 to 1	C	13 Jan 26	HazLocDoc, Rod Bushing 20mm

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