

1 **EU - TYPE EXAMINATION CERTIFICATE**

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

3 EU - Type Examination Certificate **Baseefa03ATEX0098X – Issue 6**
Number:

3.1 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.

4 Product: **EL Electropneumatic Positioner**

5 Manufacturer: **Kinetrol Limited**

6 Address: **Trading Estate, Farnham, Surrey, GU9 9NU, UK**

7 This re-issued certificate extends EC Type Examination Certificate No. BaseefayyATEXnnnnX 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.

8 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.

8.1 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**

9 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.

10 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.

11 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.

12 The marking of the product shall include the following:

⊕ II 1G Ex ia IIC T4 Ga (-20°C ≤ Ta ≤ +70°C)

SGS Fimko Oy Customer Reference No. **0622**

Project File No. **22/0722**

This document is issued by the Company subject to their General Conditions for Certification Services accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained herein reflects the Company's findings at the time of their intervention only and within the limits of Client's instructions, if any. It does not necessarily indicate that the equipment may be used in particular industries or circumstances. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, schedule included, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Fimko Oy

Takomotie 8

FI-00380 Helsinki, Finland

Telephone +358 (0)9 696 361

e-mail sgs.fimko@sgs.com

web site www.sgs.fi

Business ID 0978538-5 Member of the SGS Group (SGA SA)



Mikko Välimäki
SGS Fimko Oy

13 **Schedule**

14 **Certificate Number Baseefa03ATEX0098X – Issue 6**

15 **Description of Product**

The EL Electropneumatic Positioner is designed to drive a rotary or linear actuator to a position set by a 4 – 20 mA input signal and hold it there until the input signal changes. The enclosure may be zinc alloy or aluminium alloy which introduces a Specific Condition of Use.

The apparatus comprises a microprocessor based digital positioner circuit which controls a servo valve according to the 4 – 20 mA input signal and an optional angle retransmit circuit which provides a linear 4-20mA feedback signal which is electrically isolated from the positioner signal loop. The circuits are mounted on two PCBs which are located inside the positioner enclosure together with the position feedback potentiometer and the servo valve. There are also two optional limit switches (either micro-switches or Pepperl & Fuchs NJ 2-V3-N Inductive Proximity switches to Certificate No. PTB00ATEX2032X) which form two separate intrinsically safe circuits which are electrically isolated from the input and feedback signals.

External electrical connections are made via separate terminal blocks inside the positioner enclosure.

Input parameters:

4 - 20mA Signal

$$\begin{array}{l} U_i = 28V \quad C_i = 0 \quad \text{or} \quad U_i = 25.2V \quad C_i = 0 \\ I_i = 93.3mA \quad L_i = 0 \quad \quad \quad I_i = 100mA \quad L_i = 0 \\ P_i = 0.653W \quad \quad \quad \quad \quad P_i = 0.63W \end{array}$$

Angle Retransmit circuit:

$$\begin{array}{l} U_i = 28V \quad C_i = 0 \quad \text{or} \quad U_i = 25.2V \quad C_i = 0 \\ I_i = 93.3mA \quad L_i = 0 \quad \quad \quad I_i = 100mA \quad L_i = 0 \\ P_i = 0.653W \quad \quad \quad \quad \quad P_i = 0.63W \end{array}$$

Limit Switches (micro-switches):

$$\begin{array}{l} U_i = 28V \quad C_i = 0 \\ I_i = 93.3mA \quad L_i = 0 \\ P_i = 0.653W \end{array}$$

Limit Switches (Pepperl & Fuchs NJ 2-V3-N Inductive Proximity switches to Certificate No. PTB00ATEX2032X)

$$\begin{array}{l} U_i = 16V \quad C_i = 40nF \\ I_i = 25mA \quad L_i = 50\mu H \\ P_i = 64mW \end{array}$$

16 **Report Number**

See Certificate History

17 **Specific Conditions of Use**

1. The EL Electropneumatic Positioner enclosure may be made of aluminium alloy and given a protective paint finish (epoxy paint or equivalent); however, care should be taken to protect it from impact or abrasion if located in a zone 0 area.

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
1.2.7	LVD type requirements
1.2.8	Overloading of equipment (protection relays, etc.)
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
91-160-1/A3*	1	A	30.11.23	IS EL Positioner Ex ia IIC T4 ATEX Approved Product Label
91-158/A3	1	C	07.02.14	Digital PCB Surface Mount
91-158-001/A3	1	H	24/10/22	EL Positioner Digital PCB Surface Mount (Assembled)
91-159/A3	1	C	07.02.14	Isolated Angle Retransmit PCB
91-159-001/A3	1	E	24/10/22	EL Positioner Digital PCB Isolated Angle Retransmit Surface Mount (Assembled)
91-161-001/A4	1	C	25/10/22	EL Digital Positioner Circuit Surface Mount IS Version - 5V Regulator Demand & Feedback Amps
91-161-002 /A4	1	C	25/10/22	EL Digital Positioner Circuit Surface Mount IS Version – MCU, Reset & Clock EEPROM, A/D, LEDs
91-162-001/A4	1	C	25/10/22	EL Positioner Angle Retransmit Surface Mount IS Version - 11.1V Regulator & Signal circuits
91-162-002/A4	1	C	25/10/22	EL Positioner Angle Retransmit Surface Mount IS Version – Current Controlled Switching Supply Circuit
91-162-003/A4	1	C	25/10/22	EL Positioner Angle Retransmit Surface Mount IS Version – Positioner Interface Protection Circuits

*This drawing is also associated with SGS23UKEX0198.

Current drawings which remain unaffected by this issue:

Number	Sheet	Issue	Date	Description
91-000-001/A1	1	V	11-11-19	EL Positioner Assembly
91-000-010/A3	1	D	14-04-03	Angle Retransmit Assembly
91-000-082/A2	1	D	27-01-06	LS Option Assembly (Proximity Switches)
91-000-135/A1	1	F	15.09.14	Servo Valve Assembly Mk. 3
91-000-178/A3	1	G	29.07.13	Coil Assembly
91-000-185/A2	1	C	21-03-06	LS Option (mechanical switches)
91-000-191/A2	1	E	23/11/07	Carrier Plate Assembly Moulded Coupling
91-000-200/A3	1	C	07-11-11	Wiring Diagram
91-000-208/A2	1	B	26-01-06	LS Option Assembly (Proximity Sensors)
91-000-210/A2	1	B	18-01-06	LS Option Assembly (Mechanical Limit Switches)
91-000-211/212/A2	1	C	23/11/07	05 & 07 Models Carrier Plate Assembly

Number	Sheet	Issue	Date	Description
91-017-001/A3	1	H	25-11-98	Basic Wound Coil (Low Inductance Variant)
91-048-001	1	B	05-08-94	Top & Bottom IS Switch Assemblies
91-048-002/A3				
91-048-005	1	B	31-10-07	Top & Bottom LS Switch Assemblies (Micro Switches)
91-048-006/A3				
91-168/A3	1	B	12-05-03	Extra Information Label for Inside Lid (Proximity Sensor Types)
91-176/A3	1	A	12-05-03	Extra Information Label for Inside Lid (Mechanical Limit Switch Types)
91-177/A3	1	A	12-05-03	External Wiring Label for Inside Lid (Showing Optional Mechanical Limit Switches)
91-179/A3	1	A	12-05-03	External Wiring Label for Inside Lid (Showing Optional Proximity Sensors)
650-098-8	1	B	07-10-03	Switch Assemblies (IS Proximity, Top & Bottom)
650-098-9/A3				
52-000-349/A3	1	A	04.09.13	Monitor with Anti-Static Film (ATEX)
SK3490/A3	1	A	08-02-06	Anti-Static Cap

All the above drawings are common to and held with IECEx BAS 13.0117.

20 Certificate History

Certificate No.	Date	Comments
Baseefa03ATEX0098	16 May 2003	The release of the prime certificate. The associated test and assessment is documented in Test Report No. 02(C)0445.
Baseefa03ATEX0098/1X	10 April 2006	To permit the use of an anti-static position indicator cap and use of the Positioner within combustible dust hazards. The associated test and assessment is documented in Test Report No. 05(C)0767.
Baseefa03ATEX0098 Issue 2	14 December 2011	This issue of the certificate incorporates previously issued primary & supplementary certificates into one certificate and confirms the current design meets the requirements of EN 60079-0: 2009 & EN 60079-11: 2007 (Dust approval is removed) including the revision of the marking in accordance with these standards. Also, minor changes to drawings not affecting the intrinsic safety assessment. Project 11/0873.
Baseefa03ATEX0098 Issue 3	27 February 2014	This issue of the certificate confirms the current design meets the requirements of EN 60079-0: 2012 & EN 60079-11: 2012. Also, minor changes to drawings not affecting the intrinsic safety assessment. IECEx certificate IECEx BAS 13.0117 is issued. The associated test and assessment is documented in IECEx Report GB/BAS/ExTR13.0251/00. Project 13/0757.
Baseefa03ATEX0098 Issue 4	14 April 2015	Minor changes to drawings. This issue of the certificate confirms the current design meets the requirements of EN 60079-0: 2012 + A11: 2013. The associated test and assessment is documented in IECEx Report GB/BAS/ExTR15.0097/00. Project 13/0757.
Baseefa03ATEX0098X Issue 5	20 November 2019	Minor changes to label drawing. Alternative enclosure material Aluminium which introduces an 'X' condition regarding protection against impact and abrasion when located in a zone 0. The associated test and assessment is documented in IECEx Report GB/BAS/ExTR19.0317/00. Project 19/0569.

Certificate No.	Date	Comments
Baseefa03ATEX0098X Issue 6	26 January 2024	To confirm that the latest design meets the requirements of EN IEC 60079-0:2018 and permits minor changes to drawings. The associated test and assessment is documented in IECEx Report GB/SGS/ExTR23.0162/00. Project 22/0722.
For drawings applicable to each issue, see original of that issue.		