

1 **UK-TYPE EXAMINATION CERTIFICATE**

2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres**  
**UKSI 2016:1107 (as amended) – Schedule 3A, Part 1**

3 UK-Type Examination Certificate Number: **SGS23UKEX0198X**

4 Product: **EL Electropneumatic Positioner**

5 Manufacturer: **Kinetrol Limited**

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

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

8 SGS United Kingdom Ltd. (formerly SGS Baseefa Ltd.), Approved Body number 1180, in accordance with Regulations 42 and 43 of the Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016, UKSI 2016:1107 (as amended), 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 Schedule 1 of the Regulations.

The examination and test results are recorded in a confidential report identified in the revision table at item 20.

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 UK-TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Regulations 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 1 G Ex ia IIC T4 Ga (-20°C ≤ Ta ≤ +70°C)**

SGS Customer Reference No. **0622**

Project File No. **22/0722**

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**SGS United Kingdom Limited**  
(formerly SGS Baseefa Ltd.)

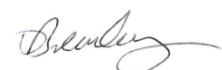
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**D BREARLEY**  
Certification Consultant

On behalf of SGS United Kingdom Limited

13

## Schedule

14

Certificate Number SGS23UKEX0198X

### 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

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

##### Angle Retransmit circuit:

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

##### Limit Switches (micro-switches):

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

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

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

### 16 Report Number

See Item 20 – 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
13	LVD type requirements
14	Overloading of equipment (protection relays, etc.)
21 (1)	External effects
21 (2)	Aggressive substances, etc.

## 19 Drawings and Documents

Other than for Issue 0, Drawings and Documents that are introduced at a new edition of the certificate are marked with an asterisk symbol:

Number	Sheet	Issue	Date	Description
91-160-1/ A3	-	A	1.12.23	IS EL Positioner Ex ia IIC T4 ATEX Approved Product label

For all other drawings, see Baseefa03ATEX0098X.

## 20 Certificate History

Certificate No.	Date	Comments
SGS23UKEX0198X	26 January 2024	Prime Certificate Report Number: GB/SGS/ExTR23.0162/00 Project Number: 22/0722 Original issue of the certificate

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