1 **EC TYPE-EXAMINATION CERTIFICATE**

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

3 Certificate Number: **Sira 08ATEX4278X** Issue: **0**

4 Equipment: **Valve Position Monitors UK Part Number 3800 (US Part Number 789-)**

5 Applicant: **Westlock Controls Limited** **Westlock Controls Corp.**

6 Address:

22 Chapman Way Tunbridge Wells Kent TN2 3EF UK	280 Midland Avenue Saddle Brook NJ 07662 USA

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 60079-0:2006 EN 60079-15:2005

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 3G
Ex nA IIC T3 Gc
(Ta = -20°C to 70°C)

Project Number 52L18531
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Certification Officer

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SCHEDULE

EC TYPE-EXAMINATION CERTIFICATE **Sira 08ATEX4278X**
Issue 0

13 **DESCRIPTION OF EQUIPMENT**

The Valve Position Monitors UK Part Number 3800 (US Part Number 789-) provide three methods of end of travel indication by the means of two, sealed, bifurcated, integral switches and input circuit LEDs that are located within a separate module known as a MagPAC module. External visual indication is available as an option on all models. To enable pneumatic control, the monitors are fitted with an additional, single, integral solenoid valve. The MagPAC module is located within an enclosure that has two parts, a cover and housing, made from either aluminium or 316 stainless steel. This enclosure provides a minimum ingress protection of IP54 and can have up to three, conduit entries, M20 x 1.5p, M25 x 1.5p, 1/2" -14 NPT, 3/4" -14 NPT or Pg 13.5, that accommodate appropriately certified cable glands thus enabling connection to an external power source.

UK Part Number System (Model 3800)

1	2	3	4	5	6	7	8	9	10	11	12	-	13	14	Field Number
XX	X	9	X	XX	X	X	X	X	2	X	XXX	-	X	X	Character

- 14 Revision
- 13 Certificate type (A=ATEX, I = IECEx)
- 12 Spacer
- 11 Special Features
- 10 Number of Entries (up to 3)
- 9 Number of Switches (2 only - MagPAC)
- 8 Solenoid Construction
- 7 Coil Voltage (C = 24 Vdc)
- 6 Solenoid Material
- 5 Shaft Type Drive
- 4 Beacon Type & Colour
- 3 Enclosure Material
- 2 Switch Type
- 1 Beacon

Series (38)

US Part Number System (Model 789-)

1	2	3	4	5	6	7	8	9	10	Field Number
XXXX	X	XX	XX	2M13	00	D	XX	X	X	Character

- 10 Over-ride Options
- 9 Special Valve Features
- 8 Falcon Valve Body
- 7 Coil Voltage (24 Vdc)
- 6 Analog Position Transmitter
- 5 Position Switches
- 4 Conduit
- 3 Beacon
- 2 Shaft Output

Base Model (789-)

Note: Material special build code to follow code above for Aluminium or Stainless Steel

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Ratings: Rated Voltage (Connector J1) - 12-24 VAC/VDC
Rated Voltage (Connector J2/J3) - 24 VAC/VDC
Rated Current (Connector J1) - Min 2 mA to light LED, Max 500 mA
Rated Power (Connector J2/J3) - 24 VDC – 0.5 W

14 **DESCRIPTIVE DOCUMENTS**

14.1 **Drawings**

Refer to Certificate Annexe.

14.2 **Associated Sira Reports and Certificate History**

Issue	Date	Report no.	Comment
0	26 November 2008	R52L18531A	The release of the prime certificate.

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

15.1 The Valve Monitors shall be connected to a device which prevents supply voltage transients in excess of 40% of the rated voltage occurring at the apparatus power supply terminals.

15.2 All used terminal screws should be prevented from loosening during service life with the use of RTY silicon sealant or an appropriate epoxy adhesive.

15.3 Parts of the enclosure are non-conducting and may generate an ignition-capable level of electrostatic charges under certain extreme conditions. The user should ensure that the equipment is not installed in a location where it may be subjected to external conditions (such as high-pressure steam) that might cause a build-up of electrostatic charges on non-conducting surfaces. Additionally, cleaning of the equipment should be done only with a damp cloth.

15.4 Since light metals may be used at the accessible surface of the apparatus, in rare cases, ignition sources due to impact and friction sparks could occur. This shall be considered when these transmitters are used in locations that specifically require Group II, Category 1 Equipment.

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.

17.3 Terminals (J3 MagPAC) used to connect the internally fitted coils shall be prevented from loosening during service life with the use of RTY silicon sealant or an appropriate epoxy adhesive.

17.4 Each completed device shall be subjected to and pass an insulation test of 500 V r.m.s. Any inputs shall be connected together and a test voltage shall be applied between them and the enclosure or frame. The test procedure shall be in accordance with clause 6.8.1 of IEC / EN 60079-15: 2005.

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Certificate Annexe

Certificate Number: **Sira 08ATEX4278X**

Equipment: **Valve Position Monitors UK Part No. 3800 (US Part No. 789-)**

Applicant: **Westlock Controls Limited**
Westlock Controls Corp.

Issue 0

Number	Sheet	Rev.	Date	Description
MS-090801UK	2 of 3	A	21 Nov 08	Ex nA Approval Drawing (General Assembly)
SC-100124	1 of 1	D	21 Nov 08	Switch Sensor PAK (schematic)
EL-30360	1 to 3	D	21 Nov 08	PCB Assembly Switch PAC
EL-40142	1 of 1	-	21 Nov 08	MAG PAC (PAC ASY) GP
EL-20505	1 of 1	C	21 Nov 08	PCB Artwork, Component-Side-Soldermask
EL-20505	1 of 1	C	21 Nov 08	PCB Artwork, Solder-Side-Soldermask
EL-20505	1 of 1	C	21 Nov 08	PCB Artwork, Component Side Layer 1
EL-20505	1 of 1	C	21 Nov 08	PCB Artwork, Solder Side Layer 2
EL-20505	1 of 1	C	21 Nov 08	PCB Artwork, Solder-Side-Silkscreen
EL-20505	1 of 1	C	21 Nov 08	PCB Artwork, Solder_Side_Solder_Paste_Mask
BV5516	1 of 1	-	21 Nov 08	Assembly of Westlock Coils for Falcon
LB-110801UK	1 of 1	A	21 Nov 08	Ex nA ATEX and IECEx Label Master

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