



EC TYPE-EXAMINATION CERTIFICATE

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

Certificate Number: **Sira 08ATEX4277X**

Issue: **0**

Equipment: **Valve Position Monitors UK Part Number 8800 (US Part Number 889-)**

Applicant: **Westlock Controls Limited**

Westlock Controls Corp.

Address: 22 Chapman Way
Tunbridge Wells
Kent TN2 3EF
UK

280 Midland Avenue
Saddle Brook
NJ 07662
USA

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

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.

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

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.

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.

The marking of the equipment shall include the following:



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

C Ellaby
Certification Officer

Project Number 52L18531
C. Index 12

This certificate and its schedules may only be reproduced in its entirety and without change.



SCHEDULE

EC TYPE-EXAMINATION CERTIFICATE

Sira 08ATEX4277X

Issue 0

13 DESCRIPTION OF EQUIPMENT

The Valve Position Monitors UK Part Number 8800 (US Part Number 889-) 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 up to two integral solenoid valves. 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 8800)															
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

Revision
Certificate type (A=ATEX, I = IECEx)
Spacer
Special Features
Number of Entries (up to 4)
Number of Switches (2 only - MagPAC)
Solenoid Construction
When fitted Coil Voltage (C = 24 Vdc)
Solenoid Material
Shaft Type Drive
Beacon Type & Colour
Enclosure Material
Switch Type
Beacon
Series (88)

US Part Number System (Model 889-)										
1	2	3	4	5	6	7	8	9	10	Field Number
XXXX	X	XX	XX	2M13	00	D	XX	X	X	Character

Over-ride Options
Special Valve Features
Falcon Valve Body
Coil Voltage (24 Vdc)
Analog Position Transmitter
Position Switches
Conduit
Beacon
Shaft Output
Base Model (889-)

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

This certificate and its schedules may only be reproduced in its entirety and without change.

Sira Certification Service

Rake Lane, Eccleston, Chester, CH4 9JN, England

Tel: +44 (0) 1244 670900
Fax: +44 (0) 1244 681330
Email: info@siracertification.com
Web: www.siracertification.com



SCHEDULE

EC TYPE-EXAMINATION CERTIFICATE

Sira 08ATEX4277X

Issue 0

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.

This certificate and its schedules may only be reproduced in its entirety and without change.

Certificate Annexe

Certificate Number: Sira 08ATEX4277X
Equipment: Valve Position Monitors UK Part No. 8800
(US Part No. 889-)
Applicant: Westlock Controls Limited
Westlock Controls Corp.



Issue 0

Number	Sheet	Rev.	Date	Description
MS-090801UK	3 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

This certificate and its schedules may only be reproduced in its entirety and without change.