1 **EU-TYPE EXAMINATION CERTIFICATE**

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

3 Certificate Number: **Sira 08ATEX5348X** Issue: **9**

4 Equipment: **Westlock Valve Position Monitors 3400 & 8400**
Westlock Valve Control Monitors 3700 & 8700

5 Applicant: **Westlock Controls Corporation**

6 Address: 280 North Midland Ave, Suite 258, Saddle Brook 07663, New Jersey USA

7 This equipment 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 number 2813 in accordance with Articles 17 and 21 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, 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 IEC 60079-0:2018	EN IEC 60079-7:2015 / A1:2018	EN 60079-11:2012
EN 60079-18:2015 / A1:2017	EN 60079-31:2014	

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to Specific Conditions of Use identified in the schedule to this certificate.

11 This EU-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 2 GD
Ex eb mb IIC T* Gb (-40°C ≤ Ta ≤ * °C)
Ex eb mb ib IIC T* Gb (-40°C ≤ Ta ≤ * °C)
Ex tb IIIC T* Db (-40°C ≤ Ta ≤ * °C)

The marking depends on the product construction and ambient temperature range. For instance, Ex eb ib mb IIC T5 Gb (-40°C ≤ Ta ≤ * °C) would be a specific marking that is applied to a series code 37*7 or 87*7 Monitor that is fitted with coils and intrinsically safe sensors. The above is therefore a generalization of the options that may be used; the Annexe of the certificate therefore includes a table that defines the marking that is relevant to each application.

Signed:

Michelle Halliwell
Title: Director of Operations

PRODUCTS RvA C 652

Project Number 80214189

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13 **DESCRIPTION OF EQUIPMENT**

The Valve Position Monitor is used to indicate and/or control the status (OPEN or CLOSED) of a process valve. The enclosures consist of a base and cover and are available in two sizes, enclosures may be constructed of A360 aluminium, AMS 5360-316 stainless steel or a non-metallic Grilamid TR90-UV material. The cover may be flat or fitted with a clear beacon constructed of Eastar DN004 material or Grilamid TR90- UV. Up to five cable/conduit entries may be drilled through the enclosure walls depending on the Valve Position Monitor model. The metallic enclosures provide an external grounding connection near the cable entry points which consists of a spring-style stainless steel screw connection.
This visual indicator provides symbols or words that indicate the 'open' or 'closed' position or direction of flow; the state of the valve is further visibly enhanced by the use of different background colours for the words or symbols.
Inside the enclosure is a grounding bar, connection terminals and a selection of encapsulated reed switches or encapsulated coils. The grounding bar is constructed of zinc-plated mild steel and has two spring-style, screw connections. The cable connection terminal strip is the following Ex eb certified component:

Manufacturer	Part Number	Certification Code	Certificates
Weidmüller	AKZ/AKE	Ex eb IIC	IECEx TUR 18.0024U TÜV 18 ATEX 8221U

Westlock 3400 Valve Position Monitor and 3700 Valve Control Monitor

The 3400 and 3700 Monitors use the smaller enclosure that consists of a base and cover fitted together with four hexagon-head stainless steel screws that are mounted in the corners of the enclosure cover. The Grilamid cover mounting threads are stainless steel inserted directly into the enclosure base at each of the four corners. There is a gasket fitted in the cover to allow for an ingress protection level of IP66/7. The enclosure may be fitted with up to three cable/conduit entries for the model 3400 or up to two cable/conduit entries for the model 3700. The enclosures may be configured with:

3400 Valve Position Monitor
- up to four Magnum reed switches

3700 Valve Control Monitor
- up to three Magnum reed switches plus one Pneumatrol EP000/m/FL/03 series coil
- one Pneumatrol EP000/m/FL/03 series coils and up to two Pepperl & Fuchs NJ2-V3-N Namur sensors

Westlock 8400 Valve Position Monitor and 8700 Valve Control Monitor

The 8400 and 8700 Monitors use the larger enclosure that consists of a base and cover fastened together with six hexagon-head stainless steel screws that are mounted in each of the corners and at the midpoint of the long side of the enclosure. There is a gasket fitted in the cover to allow for an ingress protection level of IP66/7. The enclosure may be fitted with up to five cable/conduit entries for the model 8400 and up to four cable/conduit entries for the model 8700. The enclosures may be configured with:

8400 Valve Position Monitor:
- up to four Magnum reed switches

8700 Valve Control Monitor:
- up to four Magnum reed switches plus up to two Pneumatrol EP000/m/FL/03 series coils

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Table identifying the series type and clarifying the basic construction, marking and ambient temperature range that is associated with each, specific series code:

Series code	Component parts	Coil type	Marking	Ambient
34*9 84*9	Magnum switches	NA	Ex eb mb IIC T5 Gb Ex eb mb IIC T6 Gb Ex tb IIIC T100°C Db Ex tb IIIC T85°C Db	-40°C ≤ Ta ≤ 60°C -40°C ≤ Ta ≤ 45°C -40°C ≤ Ta ≤ 60°C -40°C ≤ Ta ≤ 45°C
	Magnum switches with AKZ/AKE series terminals	NA	Ex eb mb IIC T5 Gb Ex eb mb IIC T6 Gb Ex tb IIIC T100°C Db Ex tb IIIC T85°C Db	-40°C ≤ Ta ≤ 45°C -40°C ≤ Ta ≤ 40°C -40°C ≤ Ta ≤ 45°C -40°C ≤ Ta ≤ 40°C
37*9 87*9	Magnum switches plus coil	Pneumatrol	Ex eb mb IIC T5 Gb Ex eb mb IIC T6 Gb Ex tb IIIC T100°C Db Ex tb IIIC T85°C Db	-40°C ≤ Ta ≤ 50°C -40°C ≤ Ta ≤ 45°C -40°C ≤ Ta ≤ 50°C -40°C ≤ Ta ≤ 45°C
	Magnum switches plus coil with AKZ/AKE series terminals	Pneumatrol	Ex eb mb IIC T5 Gb Ex eb mb IIC T6 Gb Ex tb IIIC T100°C Db Ex tb IIIC T85°C Db	-40°C ≤ Ta ≤ 45°C -40°C ≤ Ta ≤ 40°C -40°C ≤ Ta ≤ 45°C -40°C ≤ Ta ≤ 40°C
37*7 87*7	Coils and intrinsically safe sensors	Pneumatrol	Ex eb ib mb IIC T5 Gb Ex eb ib mb IIC T6 Gb Ex tb IIIC T100°C Db Ex tb IIIC T85°C Db	-40°C ≤ Ta ≤ 50°C -40°C ≤ Ta ≤ 45°C -40°C ≤ Ta ≤ 50°C -40°C ≤ Ta ≤ 45°C
	Coils and intrinsically safe sensors with AKZ/AKE series terminals	Pneumatrol	Ex eb ib mb IIC T5 Gb Ex eb ib mb IIC T6 Gb Ex tb IIIC T100°C Db Ex tb IIIC T85°C Db	-40°C ≤ Ta ≤ 45°C -40°C ≤ Ta ≤ 40°C -40°C ≤ Ta ≤ 45°C -40°C ≤ Ta ≤ 40°C

Variation 1 - This variation introduced the following changes:

i. The use of an intrinsically safe Pepperl & Fuchs Namur Sensor (NJ2-V3-N, types 1, 2 and 3 only) in place of Magnum switches was permitted for the 3700, the Description of Equipment was modified to recognise this change and to clarify the list of devices that are used in all the product builds.
ii. The minimum ambient temperature applicable to Valve Position Control Models 3700 and 8700 was lowered from -20°C to -40°C.

Variation 2 - This variation introduced the following changes:

i. The introduction of a new re-designed LG2 enclosure for dust protection Group IIIC 'Ex tb' was approved a Special Condition for Safe Use was introduced as a result of this change.
ii. Models 8700 and 3700 were permitted to use up to three Magnum reed-switches plus up to two Amisco 3009M-series coils.

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iii. The description was modified to recognise the LG2 enclosure and to correct typographical errors.

Variation 3 - This variation introduced the following changes:

i. The introduction of the following table which identifies the series type and clarifies the basic construction, marking and ambient temperature range that is associated with each, specific series code. The table also recognises the intrinsically safe marking that was introduced in Issue 1. Note the table was updated at issue 8

   * Formerly R.G.S., the description was modified accordingly.

ii. The slot head screws that secure the optionally fitted beacons were replaced with cap head screws.
iii. The introduction of an alternative internal M5 earth screw, along with additional alternative internal & external earth connection locations. (Already used on 87**).
iv. The shape and text positioning of the alternative marking labels was revised.
v. The 'high power' MAGNUM reed switch (drawing SW-10000) was replaced with 'high power' MAGNUM reed switch (drawing SW-10000-LXX), this involved minor design and administrative changes.
vi. The introduction of an alternative 'low power' MAGNUM reed switch (drawing SW-10108-LXX).
vii. The recognition of minor additions and corrections to the existing manufacturer's documentation:
   - Change in beacon height and overall length.
   - Addition of conduit entries table.
   - Addition of drawing stamp.
   - Additions to drawing notes.
   - Amendments to existing drawing notes.

viii. Following appropriate assessment to demonstrate compliance with the requirements of the latest technical knowledge, the documents previously listed in section 9 of the certificate, EN 60079-0:2006, EN 60079-7:2007, EN 60079-18:2004, EN 61241-0:2006, EN 61241-1:2004, IEC 60079-0:2007 Ed 5 (with respect to marking) standards, and EN 60079-0:2006 and EN 60079-31:2009 LG2 Enclosures only (plastic), were replaced by, EN 60079-0:2009, EN 60079-7:2007, EN 60079-18:2009 and EN 60079-31:2009, the special condition for safe use was amended as applicable to recognise the new standards.

Variation 4 - This variation introduced the following change:

i. The introduction of two alternative certified terminal strips WAGO Type 262-*** and Weidmüller MK 3 Range of Terminal Strips, the conditions of manufacture were amended accordingly.
ii. The UK address at 22 Chapman Way, Tunbridge Wells, Kent TN2 3EF, was removed from the certificate.

Variation 5 - This variation introduced the following changes:

i. Introduction of Weidmüller AKZ/AKE series "Ex eb" terminals. The Product Description and Conditions of Manufacture, referencing "This certificate relies on the following previously certified products", were revised to include information pertinent to the AKZ/AKE series terminals.
ii. Introduction of new ambient temperature de-ratings. In the Annexe, the Table identifying the series type and clarifying the basic construction, marking and ambient temperature range was revised to include ambient temperature de-ratings pertinent to the AKZ/AKE series terminals.
iii. The retrospective introduction of standard EN 60079-11.
iv. Revised schedule drawings.

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Variation 6 - This variation introduced the following change:

i. The recognition of an alternative manufacturing location Crane Fluid & Gas Systems (Suzhou) Co., Ltd, No.1 RunSheng Road, ShengPu SIP, JiangSu Province, 215126, China.
ii. Special condition for safe use was amended as applicable to recognise the new standards.

Variation 7 - This variation introduced the following change:

i. Following appropriate assessment to demonstrate compliance with the latest technical knowledge, EN 60079-0:2009, EN 60079-7:2007, EN 60079-11:2007, EN 60079-18:2009 and EN 60079-31:2009 were replaced by EN IEC 60079-0:2018, EN 60079-7:2015+A1:2018, EN 60079-11:2012, EN 60079-18:2014+A1:2017 and EN 60079-31:2014.
ii. The product description, marking and conditions of manufacture have been updated.
iii. The Applicant's and name for the USA location was updated from 'Westlock Controls' to 'Westlock Controls Corporation'.

Variation 8 - This variation introduced the following change:

i. Update drawings SW-10000-LXX, SW-10108-LXX, LB-120801UK, MS-120801UK, MS-120802UK, MS-120803UK, and MS-120804UK.
ii. Correct typographical errors

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Reports and Certificate History

Issue	Date	Report number	Comment
0	27 March 2009	R52L18385A	The release of the prime certificate.
1	05 August 2009	R52L18385B	The introduction of Variation 1.
2	17 May 2012	R27011A/00	The introduction of Variation 2.
3	04 March 2015	R70008749A	The introduction of Variation 3.
4	07 October 2016	R70078974A	This Issue covers the following changes: • 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.)* The introduction of Variation 4.
5	15 October 2019	1162	Transfer of certificate Sira 08ATEX5348X from Sira Certification Service to CSA Group Netherlands B.V..
6	22 June 2021	R80069864A	The introduction of Variation 5.

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Issue	Date	Report number	Comment
7	18 February 2022	R80100310A	The introduction of Variation 6.
8	02 February 2023	R80149228A	The introduction of Variation 7.
9	22 August 2024	R80214191A	The introduction of Variation 8.

15 **SPECIFIC CONDITIONS OF USE** (denoted by X after the certificate number)

15.1 WARNING: POTENTIAL ELECTROSTATIC CHARGING HAZARD – Refer to the instructions on how to clean the equipment safely and prevent static charge build-up on the Grilamid enclosure or beacon (when fitted).

15.2 The maximum dust layer shall be no greater than 5 mm (T5 135°C).

15.3 Valve Control Monitors fitted with Pneumatrol solenoid coils, certified under certificate number DEMKO 03ATEX132858X, shall have the external electrical supply to the Solenoid protected at the rated current of the solenoid by a device that is suitable for the prospective short circuit currents of 4000 A.

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 MANUFACTURE**

17.1 The use of this certificate is subject to the Regulations Applicable to Holders of CSA Group Netherlands B.V. certificates.

17.2 Holders of EU-Type Examination Certificates are required to comply with the conformity to type requirements defined in Article 13 of Directive 2014/34/EU.

17.3 Routine Dielectric strength tests shall be conducted on the Magnum Switches at 2U + 1000 (minimum 1500) Vrms, in accordance with IEC 60079-18 clause 8.2.4.

17.4 Routine Dielectric strength tests shall be conducted on the Pneumatrol Coils at 2U + 1000 (minimum 1500) Vrms, in accordance with IEC 60079-18 clause 8.2.4.

17.5 When the Magnum switches are replaced by the Pepperl & Fuchs NJ2-V3-N inductive sensors, only barriers of type 1, 2 or 3 shall be fitted in the Westlock Valve Control Monitors. The Pepperl & Fuchs NJ2-V3-N shall not be connected to a type 4 barrier due to the reduced ambient temperature range.

17.6 The products covered by this certificate incorporate previously certified devices, it is therefore the responsibility of the manufacturer to continually monitor the status of the certification associated with these devices, and the manufacturer shall inform CSA of any modifications of the devices that may impinge upon the explosion safety design of their products.

17.7 This certificate relies on the following previously certified products. The key attributes listed in the table below shall still be maintained by their original certificate:

Product	Certification No.	Key Attributes
AKZ/AKE series terminals	IECEx TUR 18.0024U	Ex eb IIC T6 -50°C to +40°C T5 -50°C to +45°C

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Product	Certification No.	Key Attributes
EP000/m/FL/03 Pneumatrol (formerly R.G.S) coils	DEMKO 03ATEX132858X	Ex ib IIC T6
NJ2-V3-N Proximity switch	IECEx PTB 11.0021X	Ex ib IIC T6
Type 262-*** Terminal strip	IECEx PTB 04.004U	Ex eb IIC Gb
Type MK 3 Terminal strip	IECEx TUR 18.0019U	Ex eb IIC Gb

17.8 A visual inspection of the Magnum switch encapsulation is to be completed; no damage such as cracks, exposure of encapsulated parts, flaking, inadmissible shrinkage, swelling, decomposition failure of adhesion or softening shall be evident.

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Certificate Annexe

Certificate Number: **Sira 08ATEX5348X**

Equipment: **Westlock Valve Position Monitors 3400 & 8400**
Westlock Valve Control Monitors 3700 & 8700

Applicant: **Westlock Controls Corporation**

Issue 0

Drawing No.	Sheets	Rev.	Date (Sira stamp)	Title
SW-10000	1 of 1	A	24 Mar 09	Magnum Switch Assembly
MS-120801UK	1 to 2	A	24 Mar 09	3400 Ex mb e ATEX/IEC Approval Drawing
MS-120802UK	1 to 2	A	24 Mar 09	3700 Ex mb e ATEX/IEC Approval Drawing
MS-120803UK	1 to 2	A	24 Mar 09	8400 Ex mb e ATEX/IEC Approval Drawing
MS-120804UK	1 to 2	A	24 Mar 09	8700 Ex mb e ATEX/IEC Approval Drawing
LB-120801UK	1 of 1	A	24 Mar 09	3400/3700, 8400/8700 Markings

Issue 1

Drawing No.	Sheets	Rev.	Date (Sira stamp)	Title
MS-120802UK	1 to 2	A	31 July 09	3700 Ex mb e ATEX/IEC Approval Drawing
MS-120804UK	1 to 3	B	31 July 09	8700 Ex mb e ATEX/IEC Approval Drawing
LB-120801UK	1 of 1	B	31 July 09	3400/3700, 8400/8700 Markings

Issue 2

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
MS-120803UK	1 to 3	B	11 May 12	8400 Ex mb e ATEX / IEC APPROVAL DRAWING
MS-120804UK	1 to 5	C	11 May 12	8700 Ex mb e ATEX / IEC APPROVAL DRAWING
LB-120801UK	1 to 2	C	11 May 12	WESTLOCK Ex mb e ATEX / IECEx Master Label Drawing

Issue 3

Drawing No.	Sheets	Rev.	Date (Sira stamp)	Title
MS-120801UK	1 to 2	B	08 Dec 14	3400 Ex mb e ATEX/IEC Approval Drawing
MS-120802UK	1 to 2	B	08 Dec 14	3700 Ex mb e ATEX/IEC Approval Drawing
MS-120803UK	1 to 3	C	08 Dec 14	8400 Ex mb e ATEX / IEC APPROVAL DRAWING
MS-120804UK	1 to 5	D	08 Dec 14	8700 Ex mb e ATEX / IEC APPROVAL DRAWING
LB-120801UK	1 to 2	D	02 Dec 14	WESTLOCK Ex mb e ATEX / IECEx Master Label Drawing
SW-10000-LXX	1 of 1	B	08 Dec 14	Magnum Switch Assembly
SW-10108-LXX	1 of 1	B	08 Dec 14	Magnum Switch Assembly

Issue 4

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
MS-120801UK	1 to 3	C	26 Sep 16	3400 Ex mb e ATEX/IEC Approval Drawing
MS-120802UK	1 to 3	C	26 Sep 16	3700 Ex mb e ATEX/IEC Approval Drawing
MS-120803UK	1 to 4	D	26 Sep 16	8400 Ex mb e ATEX / IEC Approval Drawing
MS-120804UK	1 to 6	E	26 Sep 16	8700 Ex mb e ATEX / IEC Approval Drawing

Issue 5 – no new drawings were introduced.

Issue 6

Drawing	Sheets	Rev.	Date (Stamp)	Title
LB-120801UK	E	1 of 1	08 Feb 21	WESTLOCK Ex mb e ATEX / IECEx Master Label Drawing
MS-120801UK	E	1 to 4	14 Apr 21	3400 Ex mb e Approval Drawing
MS-120802UK	E	1 to 4	14 Apr 21	3700 Ex mb e Approval Drawing
MS-120803UK	F	1 to 5	14 Apr 21	8400 Ex mb e Approval Drawing
MS-120804UK	G	1 to 7	14 Apr 21	8700 Ex mb e Approval Drawing

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Certificate Annexe

Certificate Number: **Sira 08ATEX5348X**

Equipment: **Westlock Valve Position Monitors 3400 & 8400**
Westlock Valve Control Monitors 3700 & 8700

Applicant: **Westlock Controls Corporation**

Issue 7

Drawing	Sheets	Rev.	Date (Stamp)	Description
LB-120801UK	1 to 1	F	01 Feb 22	WESTLOCK Ex mb e ATEX / IECEx Master Label Drawing

Issue 8

Drawing	Sheets	Rev.	Date (Stamp)	Title
LB-120801UK	1 of 1	G	26 Jan 23	WESTLOCK Ex mb eb ATEX / IECEx MSTER LABEL DRAWING
MS-120801UK	1 to 4	F	26 Jan 23	3400 Ex mb eb ATEX / IEC APPROVAL DRAWING
MS-120802UK	1 to 4	F	26 Jan 23	3700 Ex mb eb ATEX / IEC APPROVAL DRAWING
MS-120803UK	1 to 5	G	26 Jan 23	8400 Ex mb eb ATEX / IEC APPROVAL DRAWING
MS-120804UK	1 to 7	H	26 Jan 23	8700 Ex mb eb ATEX / IEC APPROVAL DRAWING

Issue 9

Drawing	Sheets	Rev.	Date (Stamp)	Title
SW-10000-LXX	1 to 2	G	24 Jul 24	*SWITCH MGM (N) XT-90 SPDT TUNGSTEN-CONT
SW-10108-LXX	1 to 2	C	24 Jul 24	*SWITCH MGM (N) XT-90LP SPDT BLU-CBL (3) 7″-8″ LDS RHDM-CONT
LB-120801UK	1 of 1	H	24 Jul 24	*MASTER LABEL DRAWING 3400/3700/8400/8700 Ex eb ib mb (ATEX / IECEx)
MS-120801UK	1 to 4	G	24 Jul 24	*3400 Ex eb mb ATEX / IEC APPROVAL DRAWING
MS-120802UK	1 to 4	G	24 Jul 24	*3700 Ex eb mb ATEX / IEC APPROVAL DRAWING
MS-120803UK	1 to 5	H	24 Jul 24	*8400 Ex eb mb ATEX / IEC APPROVAL DRAWING
MS-120804UK	1 to 7	J	24 Jul 24	*8700 Ex eb mb ATEX / IEC APPROVAL DRAWING

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