1. EC-TYPE EXAMINATION CERTIFICATE

2. **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres Directive 94/9/EC**

3. EC-Type Examination Certificate Number: **ITS11ATEX17438X**

4. Equipment or Protective System: **2600 Series Valve Position Monitor**

5. Manufacturer: **WESTLOCK Controls Ltd.**

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

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

8. Intertek Testing and Certification Limited, notified body number 0359 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.

   The examination and test results are recorded in confidential Intertek Report 11054387A1 dated March 2012.

9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with standards EN 60079-0:2009, EN 60079-1:2007 and EN 60079-31:2009 except in respect of those requirements referred to at item 18 of the Schedule.

10. If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system 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 or protective system in accordance to the directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

12. The marking of the equipment or protective system shall include the following:-

Ex II 2 G Ex d IIC T* Gb Tamb -60°C to +*°C

D Ex tb IIIC T*°C Db Tamb -60°C to +*°C IP6X

*See schedule for details

P Moss
Certification Officer
07 March 2012

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13. SCHEDULE

14 EC-TYPE EXAMINATION CERTIFICATE NUMBER ITS11ATEX17438X

15. Description of Equipment or Protective System

The 2600 Series Valve Position Monitors provides two methods of end of travel indication by the means of mechanical switches, inductive proximity sensors or proximity switches and an external visual indicator, dependant on model ordered. For applications that require position feedback, ancillary components such as a 4-20mA current signal transmitter or a resistive signal feedback can be installed.

The 2600 series enclosure is available in two materials; cast Aluminium or 316 Stainless Steel. The enclosure construction comprises of a housing with a screwed cover. The enclosure is cylindrical in construction with an approximate diameter of 130mm and is approximately 100mm tall with the optional beacon measuring approximately 30mm tall mounted beneath the enclosure.

The housing has the option of up to four cable entries for connection to an external power source via appropriate ATEX certified cable glands ;M20 x 1.5p, M25 x 1.5p, 1/2"–14NPT or 3/4"-14 NPT. The enclosure can also be fitted with up to two Ex d coils which are fitted in the place of the threaded cable entries via an M32 x 1.5p threaded entry. The first two digits of the WESTLOCK nomenclature signifies the series with the third digit defining whether the product has a visual beacon or not. The table details the applicable ambient ranges;

Series Code	Cover Type	T Class / T_{max}	Ambient Range
264*	Beacon	T6 / T80°C	-60°C to +65°C
264*	Beacon	T5 / T95°C	-60°C to +80°C
264*	Beacon	T4 / T130°C	-60°C to +110°C
266*	No Beacon	T6 / T80°C	-60°C to +65°C
266*	No Beacon	T5 / T95°C	-60°C to +80°C
266*	No Beacon	T4 / T130°C	-60°C to +110°C

When fitted with coil's the T4 ambient range is reduced to -60°C to +85°C.

The forth digit designates the switch / sensor type. The following table details the most common switch / sensor types together with their electrical ratings.

Series Code / Switch Designation	Electrical Rating
26*5	MECHANICAL (SPDT): 15A - 125 OR 250 VAC; 0.5A 125VDC; 0.25A 250VDC
26*6	MECHANICAL (DPDT): 10A - 125 OR 250 VAC, 10A - 28 VDC, 0.2A - 125 VDC
26*7	INDUCTIVE PROXIMITY SENSORS
26*9	MAGNUM RATINGS: 3A/120 VAC, 1.5A/240 VAC OR 2A/24 VDC

The 2600 series valve position monitor has the option for position feedback by the means of a resistive signal (RS) or current signal (CS).

The RS Transmitter electrical ratings are – 1K Ohms (standard) or 5K or 10K Ohms (optional).

The CS Transmitter electrical ratings are – current loop 4-20 mA @ 18 to 24 VDC.

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13. SCHEDULE

14 EC-TYPE EXAMINATION CERTIFICATE NUMBER ITS11ATEX17438X

15. Description of Equipment or Protective System Cont.

The 2600 series can also be fitted with up to two Ex d coils with the following possible electrical ratings.

Coil Voltage	Electrical Rating
12VDC	12VDC (0.7w)
24VDC	24VDC (0.7w)
125VDC	125VDC (1w)
90-120VAC	90-120VAC (4VA)
220-240VAC	220-240VAC (4VA)
Others	limited to 0.7w or 4VA

Alternative manufacturing location:

WESTLOCK Controls Corporation
280 Midland Avenue
Saddle Brook,
NJ 07663
USA

16. Report Number:

Intertek Report Ref 11054387A1 dated March 2012

17. CONDITIONS OF CERTIFICATION:

(a). Special Conditions for safe use

- Temperatures at the cable entry point can exceed 70°C and 80°C at the branching point. Selection of cable must be appropriate for the ambient temperature range.
- The certification applies to the enclosure without cable glands, only suitably approved flameproof cable glands may be used with an ingress protection rating of IP6X.
- When conduit is utilised the conduit must be sealed in accordance with clause 13.2.2 of EN60079-1:2007 with a suitably approved conduit sealing device.
- All unused entries must be plugged with suitably approved flameproof blanking elements with an ingress protection rating of IP6X.
- The equipment is provided with a serial number label internally, if required by the end user WESTLOCK Controls will supply an external serial number label.
- No modifications must be made to the flamepaths of the equipment without consultation of the drawings.

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13. SCHEDULE

14 EC-TYPE EXAMINATION CERTIFICATE NUMBER ITS11ATEX17438X

(b). Conditions For Use (Routine Tests)

None.

18. Essential Health and Safety Requirements (EHSR's)

The relevant EHSR's have been identified and assessed in Intertek Report 11054387B1 dated March 2012.

19. Drawings and Documents

Number	Title	Issue	Date
LB-040801UK	2600 SERIES ATEX LABEL MASTER	D	18-10-2011
MS-10762	CERTIFICATION DRAWING 2600 (ATEX & IEC Ex) SHEET 1 & 2	D	18-10-11

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1. SUPPLEMENTARY EC-TYPE EXAMINATION CERTIFICATE

2. **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres Directive 94/9/EC**

3. Supplementary EC-Type Examination Certificate Number: **ITS11ATEX17438X/1**

4. Equipment or Protective System: **2600, 360 or 366 Series Valve Position Monitor**

5. Manufacturer: **Westlock Controls Ltd**

6. Address: 22 Chapman Way, Tunbridge, Kent, TN2 3EF, United Kingdom

7. This supplementary certificate extends EC-Type Examination Certificate Number **ITS11ATEX17438X** to apply to equipment or protective systems designed and constructed in accordance with the specification set out in the Schedule of the said Certificate but having variations specified in the Schedule attached to this certificate and the documents therein referred to.

   Intertek Report 101009325MAN–001B, May 2013

   This Supplementary Certificate shall be held with the original Certificate

   ITS11ATEX17438X, Dated 7th March 2012

K R Spence
Certification Officer
30th May 2013

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Schedule

SUPPLEMENTARY EC-TYPE EXAMINATION CERTIFICATE NUMBER: **ITS11ATEX17438X/1**

VARIATION ONE

Description of the Variation to the Equipment or Protective System

To permit the following change:

- Type identification to include equivalent series codes 2600 equated to 360 or 366.

The original product description has therefore been amended as follows:-

The 2600, 360 or 366 Series Valve Position Monitors provides two methods of end of travel indication by the means of mechanical switches, inductive proximity sensors or proximity switches and an external visual indicator, dependant on model ordered. For applications that require position feedback, ancillary components such as a 4-20mA current signal transmitter or a resistive signal feedback can be installed.

The 2600, 360 or 366 series enclosure is available in two materials; cast Aluminium (2600 or 360 Series) or 316 Stainless Steel (2600 or 366 Series). The enclosure construction comprises of a housing with a screwed cover. The enclosure is cylindrical in construction with an approximate diameter of 130mm and is approximately 100mm tall with the optional beacon measuring approximately 30mm tall mounted beneath the enclosure.

The housing has the option of up to four cable entries for connection to an external power source via appropriate ATEX certified cable glands; M20 x 1.5p, M25 x 1.5p, 1/2"–14NPT or 3/4"-14 NPT. The enclosure can also be fitted with up to two Ex d coils which are fitted in the place of the threaded cable entries via an M32 x 1.5p threaded entry. On the 2600 series, the first two digits of the WESTLOCK nomenclature signify the series with the third digit defining whether the product has a visual beacon or not. However on the 360 or 366 series the first three digits of the nomenclature signify the series with the fifth and sixth digit defining the type of beacon utilised; if used at all. The table details the applicable ambient range;

Series Code	Cover Type	T Class / T_{max}	Ambient Range
264*/360X**XX**XXXXXXX/366X**XX**XXXXXXX	Beacon	T6 / T80°C	-60°C to +65°C
264*/360X**XX**XXXXXXX/366X**XX**XXXXXXX	Beacon	T5 / T95°C	-60°C to +80°C
264*/360X**XX**XXXXXXX/366X**XX**XXXXXXX	Beacon	T4 / T130°C	-60°C to +110°C
266*/360X**XX**XXXXXXX/366X**XX**XXXXXXX	No Beacon	T6 / T80°C	-60°C to +65°C
266*/360X**XX**XXXXXXX/366X**XX**XXXXXXX	No Beacon	T5 / T95°C	-60°C to +80°C
266*/360X**XX**XXXXXXX/366X**XX**XXXXXXX	No Beacon	T4 / T130°C	-60°C to +110°C

The 5th and 6th digits on the equivalent series (360 or 366) code denote the beacon type. If the series does not have a beacon the 5th and 6th digits on the series code are replaced by 00.

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Schedule

SUPPLEMENTARY EC-TYPE EXAMINATION CERTIFICATE NUMBER: **ITS11ATEX17438X/1**

When fitted with coils the T4 ambient range is reduced to -60°C to +85°C.

On the 2600 series the 4th digit detail the switch type utilised, similarly the 10th, 11th and 12th digits on the equivalent series (360 or 366) detail the switch type used

The following table details the most common switch/sensor types together with their electrical ratings.

SERIES CODE/Switch Designation	ELECTRICAL RATING
26*5/36*XXXXXXM02XX	MECHANICAL (SPDT):15A-125 OR 250 VAC ;0.5A-125VDC;0.25A 250VDC
26*6/36*XXXXXXM04XX	MECHANICAL (SPDT):10A-125 OR 250 VAC ;10A-28VDC;0.2A 125VDC
26*7/36*XXXXXXM0XXX	INDUCTIVE PROXIMITY SENSORS
26*9/36*XXXXXXM06 OR M12XX	MAGNUM RATINGS: 3A/120 VAC, 1.5A/240 VAC OR 2A/24 VDC

*The third digit on the alternative series codes can either be a 0 or 6, depending on the type of series model used (360 or 366).

The 2600, 360 or 366 series valve position monitor has the option for position feedback by the means of a resistive signal (RS) or current signal (CS).

- The RS Transmitter electrical ratings are - 1K OHMS (standard) OR 5K OR 10KOHMS (optional)
- The CS Transmitter electrical ratings are - CURRENT LOOP 4-20mA @ 18 to 24 VDC

The 2600, 360 or 366 series can also be fitted with up to two Ex d coils with the following possible electrical ratings:

COIL VOLTAGE	ELECTRICAL RATINGS
12 VDC	12 VDC (0.7W)
24 VDC	24 VDC (0.7W)
125 VDC	125 VDC (IW)
90-120 VAC	90-120 VAC (4VA)
220-240 VAC	220-240 VAC (4VA)
OTHERS	LIMITED TO 1W OR 4VA

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Schedule

SUPPLEMENTARY EC-TYPE EXAMINATION CERTIFICATE NUMBER: **ITS11ATEX17438X/1**

Report No.

Intertek Report Ref: 101009325MAN–001B

CONDITIONS OF CERTIFICATION

- No additional conditions, see original certificate

Essential Health and Safety Requirements

See original certificate

DRAWINGS

Number	Issue	Date	Description
LB-040801UK (pages 1 to 2)	F	26-03-13	2600 SERIES ATEX LABEL MASTER

Note: Alternative label option to allow for additional information is detailed on page 2 of drawing LB-040801UK.

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