



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: IECEx CSA 17.0012X

Issue No: 0

Certificate history:

Issue No. 0 (2017-06-09)

Status: **Current**

Page 1 of 3

Date of Issue: **2017-06-09**

Applicant: **Westlock Controls Corporation**
280 North Midland Ave Suite 258, Saddle Brook, NJ, 07663, USA
United States of America

Equipment: **Valve Position Controller**

Optional accessory: *N/A*

Type of Protection: **Ex ia, Ex tb**

Marking:

Ex ia IIC T4 Ga

Ex tb IIIC T87 Db

Tamb: -40C to 85C

*Approved for issue on behalf of the IECEx
Certification Body:*

Dorin Stochitoiu

Position:

Technical Advisor

*Signature:
(for printed version)*

Date:

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

CSA Group
178 Rexdale Boulevard
Toronto, Ontario M9W 1R3
Canada





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Date of Issue: **2017-06-09** Page 2 of 3

Manufacturer: **Westlock Controls Corporation**
280 North Midland Ave Suite 258, Saddle Brook, NJ, 07663, USA
United States of America

Additional Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2011 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-11 : 2011 Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
IEC 60079-31 : 2013 Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

[CA/CSA/ExTR17.0011/00](#)

Quality Assessment Report:

[US/FMG/QAR08.0002/06](#)



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Page 3 of 3

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The Valve Position Controller housed in Grilamid TR90UV polymeric or 316 stainless steel enclosures rated Ex ia IIC T4 Ga; and housed in A360.2 type aluminum enclosure rated Ex ia IIC T4 Ga; Ex tb IIIC T87 Db.

The device consists of fully encapsulated electronic module, connection terminals and a pair of optional galvanically isolated read switches externally connected to a separate energy limited supply. The electronic module has two main circuitries isolated by an optocoupler. Each circuitry – input and output 4-20 mA loops connected to separate external energy limited supply.

Device nomenclature:

K20XISyXXXXXX:

y:

E – Polymeric enclosure

A – Aluminum enclosure

S – Stainless steel enclosure

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. Measures shall be taken to avoid ignition due to impact for models utilizing aluminum enclosures.
2. Measures must be taken to avoid ignition due to electrostatic charges for models utilizing polymeric enclosures.
3. A cable gland suitably rated for working ambient temperature range maintaining IP65 rating must be used.
4. Field wiring using multiconductor cable shall either have each conductor enclosed in grounded metal shield or each conductor have minimum 0.25mm (0.01”) insulation thickness.

Entity Parameters			
4-20 In (Term. 7 & 8)	4-20 Out (Term. 9 & 10)	Switch (Term. 1-3 / 4-6)	Inductive Sensor (Term. 1-4)
$V_{max} / U_i = 30V$	$V_{max} / U_i = 30V$	$V_{max} / U_i = 30V$	$V_{max} / U_i = 16V$
$I_{max} / I_i = 100mA$	$I_{max} / I_i = 100mA$	$I_{max} / I_i = 25mA$	$I_{max} / I_i = 25mA$
$P_{max} / P_i = 0.75W$	$P_{max} / P_i = 0.75W$	$P_{max} / P_i = 2W$	$P_{max} / P_i = 0.034W$
$C_i = 0nF$	$C_i = 1nF$	$C_i = 0 nF$	$C_i = 40 nF$
$L_i = 0\mu H$	$L_i = 0\mu H$	$L_i = 0 \mu H$	$L_i = 50 \mu H$