



国家防爆

Electrical Apparatus for Explosive Atmospheres

# CERTIFICATE OF CONFORMITY

Cert. No.: CNEx15.2540X

**Manufacturer** United Electric Controls Company  
(Address: 180 Dexter Avenue, Watertown, MA 02471 USA)

**Name of Product** Pressure operated switch

**Type of Product** 120,121, 122

**Marking** Ex d IICT6 Gb  
Ex tD A21 T85°C IP66

**Standard** —

**Drawing No.** —

The drawings, technical documents and the samples are verified and certified according to standard(s) for safety as below:

GB3836.1-2010 Explosive atmospheres Part 1: Equipment-General requirements

GB3836.2-2010 Explosive atmospheres Part 2: Equipment protection by flameproof enclosures "d"

GB12476.1-2013 Electrical apparatus for use in the presence of combustible dust -Part 1: General requirements

GB12476.5-2013 Electrical apparatus for use in the presence of combustible dust Part 5: Protection by enclosures "tD"

**Note** See Annex(3 pages).

**Valid Date** From Aug 14, 2015 to Aug 13, 2020

**Issue Date** Aug 14, 2015

**Director**



**CHINA NATIONAL QUALITY SUPERVISION AND TEST CENTRE FOR EXPLOSION PROTECTED ELECTRICAL PRODUCTS**

Address: No.20 North Zhongjing Rd, Nanyang, Henan(473008), P.R.China

Tel: 0377-63258564 Fax: 0377-63208175 [Http://www.china-ex.com](http://www.china-ex.com)



Note: This certificate is only valid for the products which identify with the sample(s) tested and verified. Holder(s) of this certificate have the responsibility to ensure the products complying with relevant standard(s).

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1. This product have obtained IECEx certificate, Cert. No.: IECEx UL 03.0001X.

2. Product description:

The pressure operated switches consist of a die-cast aluminum switch housing containing a single or dual snap switch, which is operated by an operating rod forming a joint with the enclosure. The electrical wires between the snap switch and the one or two sets of terminal blocks are permanently mounted by the manufacturer and can not be replaced.

Blanking elements from factory have been tested for Flameproof "d" and Dust "tD" with the enclosures as an assembly and carry no markings.

3. Service temperature:

-40 °C ≤ Tamb ≤ +75 °C

4. Special conditions for safe use:

1) Dimensions of flameproof joints are other than the relevant minimum or maximum specified in tables 1 through 2 of GB3836.2-2010. Pressure operated switches are to be marked with an "X" and manufacturer's installation instructions (Drawings Nos. IMT120 and IMP120) detail the dimensions of the flameproof joints.

2) For Group III equipment, manufacturer's installation instructions (Drawing Nos. IMT120 and IMP120) provide guidance for the user to minimize the risk from electrostatic discharge.

5. Nomenclature for Type 120, 121 and 122 Pressure Switches:

Example:

Q	J	120	P	S164B	3000	XC007	12345
I	II	III	IV	V	VI	VII	VIII

I. End-User Destination

None – International/Domestic

Q – International/Domestic, Internal Reference Only

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II. Device Calibration

- H – Calibrated with External Adjustment
- J – Uncalibrated

III. Type Designation

- 120 – Single Snap Switch
- 121 – Single Snap Switch with External Adjustment
- 122 – Two Snap Switches with External Adjustment

IV. Sensing Method

- None – Straight Vacuum or Gauge Pressure Sensing
- K – Differential Pressure Sensing
- P – Common Adjustment

V. Pressure Sensor Designation

Two to five character/digit alphanumeric code indicating one of the pressure sensor models shown in the relevant Certification Drawing.

VI. Internal Snap Switch Designation

Four-digit numeric code indicating one of the Internal Snap Switch models shown in the relevant Certification Drawing.

VII. Miscellaneous Options

- Four to five character/digit alphanumeric code not affecting electrical ratings or pressure ratings:
- None – No options(s) employed

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- M210 – Mechanically operated pressure indicator
- M430 – Cover lock option
- M440 – Cover chain option
- M540 – Viton diaphragm construction
- M542 – AFLAS diaphragm construction
- M550 – Alternate fitting
- M913 – 1/4 in. NPT Stainless Steel pressure connection
- M914 – 1/2 in. NPT Stainless Steel pressure connection
- M915 – 1/4 in. NPT Monel pressure connection
- M916 – 1/2 in. NPT Monel pressure connection
- M917 – 1/4 in. NPT Hastelloy C pressure connection
- M918 – 1/2 in. NPT Hastelloy C pressure connection
- M919 – 1/4 in. NPT Aluminum pressure connection
- M920 – 1/2 in. NPT Aluminum pressure connection
- XC001 – Aluminum pressure connection with Viton diaphragm and Viton o-ring
- XC002 – Aluminum pressure connection with Kapton diaphragm and Buna-N o-ring
- XC003 – Aluminum pressure connection with Kapton diaphragm and Viton o-ring
- XC004 – 316L Stainless Steel pressure connection with 316L Stainless Steel diaphragm and Viton o-ring
- XC005 – 316L Stainless Steel pressure connection with Viton diaphragm and Viton o-ring
- XC006 – 316L Stainless Steel pressure connection with Kapton diaphragm and Viton o-ring
- XC007 – 316L Stainless Steel pressure connection with Teflon diaphragm and Viton o-ring

VIII. Customer Specification Number

Five character/digit alphanumeric code indicating pressure range and miscellaneous options; equivalent to a customer specification code

Issue Date            Jun 15, 2015

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