



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: **IECEX KTL 09.0004X**

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Certificate history:

Status: **Current**

Issue No: 4

Issue 3 (2014-12-05)

Issue 2 (2014-03-07)

Issue 1 (2010-08-30)

Issue 0 (2009-11-26)

Date of Issue: **2023-08-17**

Applicant: **i-Tork Controls Co., Ltd**  
12-13, Gilju-ro 411beon-gil, Wonmi-gu, Bucheon-si, Gyeonggi-do  
**Korea, Republic of**

Equipment: **Position Monitoring Switch, ITS3\*\* and ITS5\*\* series**

Optional accessory:

Type of Protection: **Flameproof enclosure "d" and Dust ignition protection by enclosure "t"**

Marking: **Ex db IIC T6 Gb**  
**Ex tb IIIC T85 °C Db**

Approved for issue on behalf of the IECEx  
Certification Body:

**Park, Jong-koo**

Position:

**Certification Manager**

Signature:  
(for printed version)

Date:  
(for printed version)

**2023-08-17**

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2. This certificate is not transferable and remains the property of the issuing body.
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Certificate issued by:

**Korea Testing Laboratory**  
87, Digital-ro, 26-gil, Guro-gu  
Seoul  
Korea, Republic of





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Manufacturer: **i-Tork Controls Co., Ltd**  
12-13, Gilju-ro 411beon-gil, Wonmi-gu, Bucheon-si, Gyeonggi-do  
**Korea, Republic of**

Manufacturing  
locations:

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 equipment 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 60079-0:2017** Explosive atmospheres - Part 0: Equipment - General requirements  
Edition:7.0

**IEC 60079-1:2014** Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"  
Edition:7.0

**IEC 60079-31:2022** Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t"  
Edition:3.0

This Certificate **does not** indicate compliance with 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 Reports:

KR/KTL/ExTR09.0004/00

KR/KTL/ExTR09.0004/01

KR/KTL/ExTR09.0004/02

Quality Assessment Report:

KR/KTL/QAR09.0004/10





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## EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

- Position monitoring switch, ITS3\*\* and ITS5\*\* series, are used for valves and actuators which rotate 90 degrees quarter turn. The material of the enclosure of ITS3\*\* series is aluminium alloy and ITS5\*\* series is stainless steel. It provides a visual indication of the current position of the valve and actuator or other quarter-turn rotating equipment. The dome indicator unit shows the current position by color and letter. This equipment provides an electrical signal at the fully open or closed position by activating mechanical switches, proximity sensors, and other magnetic sensors. Switches and sensors vary dependent on model type. ITS3\*\* and ITS5\*\* series provides NPT (NPT 3/4, NPT 1/2) and Metric (M25, M20) thread cable entry holes.

- ITS32T and ITS52T are intended to be used as a junction box containing terminal block(s) inside the flameproof enclosure.

- The equipment gives a degree of protection IP67 in accordance with IEC60079-0 and IEC 60529.

## <Type Designation>

ITS(a)(b)(c)

|     |                       |  |
|-----|-----------------------|--|
| (a) | Model (Type)          | 3: 300   |
|     |                       | 5: 500   |
| (b) | Switch or Sensor      | 0: Mechanical Switches                                       |
|     |                       | 1: Proximity Sensors   |
|     |                       | 2: Basic type  |
| (c) | Switch or Sensor name | 0: 2-SPDT (Applicable for ITS 100~ 500)                      |
|     |                       | 1: 3-SPDT (Applicable for ITS 100~ 500)                      |
|     |                       | 2: 4-SPDT (Applicable for ITS 100~ 500)                      |
|     |                       | 3: 2-SPST (Applicable for ITS 100~ 500)                      |
|     |                       | 4: 2-DPDT (Applicable for ITS 300~ 500)                      |
|     |                       | 5: 2-SPDT + OUTPUT (0~1) K OHM (Applicable for ITS 300~ 500) |
|     |                       | 6: 2-SPDT + OUTPUT (4~20) mA (Applicable for ITS 300~ 500)   |
|     |                       | 7: AUTONICS(PS17-5DNU) (Applicable for ITS 100~ 500)         |
|     |                       | 8: P&F(NJ2-V3-M) (Applicable for ITS 100~ 500)               |
|     |                       | M: MONAS SENSOR (Applicable for ITS 300~ 500)                |
|     |                       | T: Terminal box  |

## <Ambient Temperature>

-20 °C to +60 °C

## <Electrical Data>

- Power supply (Rated voltage):  
(24/125/240/250/300/480) Vac, (50/60) Hz or  
(8/(12-24)/24/(50-60)/125/250) Vdc

## SPECIFIC CONDITIONS OF USE: YES as shown below:

- Potential electrostatic charging hazard - see instructions.
- Fasteners with property class A2-50 shall be used.
- For details on the flamepaths, the manufacturer shall be contacted.



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## DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Issue no. 4 (2023.08.17.)

- The type of protection "tb" has been added.
- Thread types of provided cable entry are changed.
- Update of IEC 60079-0 and IEC 60079-1 to latest editions (from IEC 60079-0:2007 and IEC 60079-1:2007 to IEC 60079-0:2017 and IEC 60079-1:2014, respectively)