



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

Ex COMPONENT CERTIFICATE

Certificate No.: **IECEx CQM 11.0011U**

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Certificate history:

Status: **Current**

Issue No: 2

Issue 1 (2014-11-29)

Issue 0 (2011-08-31)

Date of Issue: 2024-05-17

Applicant: **WAROM TECHNOLOGY INCORPORATED COMPANY**
No. 555, Baoqian Road, Jiading District, Shanghai 201808
China

Ex Component: Explosion-proof control switch typed BK8050 - □,

This component is NOT intended to be used alone and requires additional consideration when incorporated into other equipment or systems for use in explosive atmospheres (refer to IEC 60079-0).

Type of Protection: **Flameproof enclosures "db", Increased safety "eb"**

Marking: Ex db eb IIC Gb

Approved for issue on behalf of the IECEx
Certification Body:

Ji Xiaodong

Position:

President 2024-05-17

Signature:
(for printed version)

Date:
(for printed version)

1. This certificate and schedule may only be reproduced in full.
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Certificate issued by:

China Quality Mark Certification Group Co., Ltd.
No. 33 Zengguang Road, Haidian District
Beijing City, Postal code: 100048
China





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No. 555, Baoqian Road, Jiading District, Shanghai 201808
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Manufacturing
locations: **WAROM TECHNOLOGY
INCORPORATED COMPANY**
No. 555, Baoqian Road, Jiading
District, Shanghai 201808
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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 component 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 60079-7:2017](#) Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

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 component listed has successfully met the examination and test requirements as recorded in:

Test Report:

[CN/CQM/ExTR11.0011/02](#)

Quality Assessment Report:

[CN/CQM/QAR07.0003/12](#)



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Ex Component(s) covered by this certificate is described below:

BK8050 Explosion-proof control switch is an explosion-proof element of "Ex", which is composed of three parts: cam mechanism, contact body, and accessories, and the shell of the contact body is formed by engineering plastics pressing. It adopts flameproof type explosion-proof protection, equipped with a pair of static contacts and a moving contact. The pushing rod is made of stainless steel. Through the combination of multiple pairs of contacts, different cams have different electrical functions. The terminal screws of the elements are M4 screws and are equipped with shingle washers.

BK8050 Explosion-proof control switch can be used in zone 1 and zone 2 explosive gas mixture places. This product is "Ex" component, which cannot be used independently. It needs to be installed in a suitable certified enclosure.

Details of nomenclature:

BK8050 - □, where □ can be A~Z, a, b, e, f, g

Ratings:

Rated Voltage:

AC : 500V, 460V, 440V, 400V, 380V, 230V

AC/DC : 220V, 110V, 48V, 36V, 24V, 12V,

Rated Current:

Max 20A

SCHEDULE OF LIMITATIONS:

1. The explosion-proof control switch is Ex component and shall be placed inside a suitable certified enclosure in accordance with IEC60079 series standard.
2. The explosion-proof control switch can be used in ambient temperature range:-60°C-+90°C, Service temperature range:-60°C-+90°C.
3. The creepage and clearance distance shall be observed according to IEC 60079-7 after installation for flammable gas atmosphere.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

1. The product name updated from the original BK8050 Control switch to BK8050 Explosion-proof Control switch.
2. Standards is updated from IEC 60079-0:2011, IEC 60079-1:2007, IEC 60079-7:2006 to IEC 60079-0:2017, IEC 60079-1:2014, IEC 60079-7:2017.
3. The service temperature updated from the original -20°C~+80°C to -60°C~+90°C.
4. Rated voltage and current updated from the original AC415V, 230V Max. 16A to Max. AC500V , Max. DC 220V, Max. 20A.