



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 EPS 11.0011U** Page 1 of 4 Certificate history:
Status: **Current** Issue No: 2 Issue 1 (2013-12-19)
Date of Issue: 2022-11-28 Issue 0 (2012-03-29)
Applicant: **Quintex GmbH**
i_Park Tauberfranken 13
97922 Lauda-Koenigshofen
Germany
Ex Component: Explosion-proof switch module, type QX0201-...
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: **db, eb, tb**
Marking: Ex db eb IIC Gb
Ex tb IIIC Db

Approved for issue on behalf of the IECEX
Certification Body:

Position:

Signature:
(for printed version)

Date:
(for printed version)



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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:

Bureau Veritas Consumer Products Services Germany GmbH
Businesspark A96
86842 Türkheim
Germany





IECEX Certificate of Conformity

Certificate No.: **IECEX EPS 11.0011U**

Page 2 of 4

Date of issue: 2022-11-28

Issue No: 2

Manufacturer: **Quintex GmbH**
i_Park Tauberfranken 13
97922 Lauda-Koenigshofen
Germany

Manufacturing
locations: **Quintex GmbH**
i_Park Tauberfranken 13
97922 Lauda-Koenigshofen
Germany

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 60079-1:2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

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:

[DE/EPS/ExTR12.0007/02](#)

Quality Assessment Report:

[DE/EPS/QAR11.0001/12](#)



IECEX Certificate of Conformity

Certificate No.: **IECEX EPS 11.0011U**

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Date of issue: 2022-11-28

Issue No: 2

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

The QX-0201 series explosion-proof switch module is a component that has a combination of protection level flameproof "db" and increased safety "eb". The contact compartment is flameproof "db" and the terminals are increased safety "eb". The cover and housing installation result in dust explosion protection "tb".

The installation method of QX-0201 is divided into two types: PCB front side, PCB back side. The housing of QX-0201 explosion-proof switching module is made of plastic. For the front panel type, two push pins go through the cover, and for the rear panel type, these two push pins go through the enclosure.

The final determination of a temperature class is made for the housing after complete assembly according to the specifications of IEC 60079-7.

Electrical data:

400 V AC 16 A

110 V DC 1 A

SCHEDULE OF LIMITATIONS:

- Service temperature T_s $-40\text{ °C} \leq T_s \leq +90\text{ °C}$ for QX-0201 type L
Service temperature T_s $-55\text{ °C} \leq T_s \leq +90\text{ °C}$ for QX-0201 type H
- If the product contains certified parts or safety-critical components, the manufacturer must ensure that changes to these parts or components do not affect the conformity of the certified product that is the subject of this certificate.
- The dimensions of the flameproof joints differ from those of IEC 60079-1 Table 3 and therefore shall not be repaired.
- The explosion protected switch module type QX-0201-... must be installed in an appropriately certified enclosure with at least IP64. The clearances and creepage distances according to sections 4.3, 4.4 and Table 2 (IEC 60079-7) shall be fulfilled.
- The dielectric strength test must be carried out in accordance with subchapter 7.1 of IEC 60079-7.



IECEX Certificate of Conformity

Certificate No.: **IECEX EPS 11.0011U**

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Date of issue: 2022-11-28

Issue No: 2

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

- Update to the new standards: IEC 60079-0 ed. 5 to IEC 60079-0: 2017 ed. 7, IEC 60079-1:2007 ed. 6 to IEC 60079-1: 2014 ed. 7 and IEC 60079-7:2006 ed. 4 to IEC 60079-7: 2017 ed. 5.1.



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Ex COMPONENT CERTIFICATE

Certificate No.: **IECEx EPS 11.0012U** Page 1 of 4 Certificate history:
Status: **Current** Issue No: 2 Issue 1 (2013-12-04)
Date of Issue: 2022-11-28 Issue 0 (2012-03-29)
Applicant: **Quintex GmbH**
i_Park Tauberfranken 13
97922 Lauda-Koenigshofen
Germany
Ex Component: Explosion-proof signal lamp module, type QX0202-...
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: **db, eb, tb**
Marking: Ex db eb IIC Gb
Ex tb IIIC Db

Approved for issue on behalf of the IECEx
Certification Body:

Position:

Signature:
(for printed version)

Date:
(for printed version)



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IECEX Certificate of Conformity

Certificate No.: **IECEX EPS 11.0012U**

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Date of issue: 2022-11-28

Issue No: 2

Manufacturer: **Quintex GmbH**
i_Park Tauberfranken 13
97922 Lauda-Koenigshofen
Germany

Manufacturing
locations: **Quintex GmbH**
i_Park Tauberfranken 13
97922 Lauda-Koenigshofen
Germany

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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 60079-1:2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

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:

[DE/EPS/ExTR12.0008/02](#)

Quality Assessment Report:

[DE/EPS/QAR11.0001/12](#)



IECEX Certificate of Conformity

Certificate No.: **IECEX EPS 11.0012U**

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Date of issue: 2022-11-28

Issue No: 2

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

The QX-0202 series explosion-proof signal lamp module is a component with combined protection level flameproof "db" and increased safety "eb". The lamp compartment is flameproof "db" and the terminals are increased safety "eb". The switch cover and enclosure installation result in dust explosion protection "tb".

The installation method of QX-0202 is divided into three types: Front side of the board, back side of the board and panel mounting. Front of board type is used for rail installation, back of board type is used for behind panel installation. For the front panel type, the two connecting screws for the external circuit are in the same direction as the lamp; for the rear panel type, these two screws are in the opposite direction of the lamp.

The housing of the explosion-proof signal lamp module QX-0202 is made of plastic.

The final determination of a temperature class is made for the housing after complete assembly according to the specifications of IEC 60079-7.

Electrical data:

Signal lamp voltage: 20 - 250 V AC / DC

280 - 400 V AC

10 - 28 V AC / DC

50 - 277 V AC / DC

SCHEDULE OF LIMITATIONS:

Ambient temperature:

-40 °C to +60 °C (for types QX-0202- __ 1L, QX-0202- __ 3L, QX-0202- __ 4L)

-55 °C to +60 °C (for types QX-0202- __ 1H, QX-0202- __ 3H, QX-0202- __ 4H)

-40 °C to +50 °C (for types QX-0202- __ 2L)

-55 °C to +50 °C (for types QX-0202- __ 2H)

Service temperature:

-40 °C to +90 °C (for types QX-0202- __ L)

-55 °C to +90 °C (for types QX-0202- __ H)

If the product contains certified parts or safety-critical components, the manufacturer must ensure that changes to these parts or components do not affect the conformity of the certified product that is the subject of this certificate.

The dimensions of the flameproof connections deviate from those of IEC 60079-1 Table 3 and therefore shall not be repaired.

The QX-0202 series explosion-proof signal lamp module must be installed in an appropriately certified enclosure with at least IP64. When installing the devices in enclosures of the type of protection Increased Safety according to standard IEC 60079-7, the clearances and creepage distances according to section 4.3 and 4.4 and Table 2 must be observed.

The dielectric strength test must be carried out in accordance with subchapter 7.1 of IEC 60079-7.



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Certificate No.: **IECEX EPS 11.0012U**

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Date of issue: 2022-11-28

Issue No: 2

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

- Update to the new standards: IEC 60079-0 ed. 5 to IEC 60079-0: 2017 ed. 7, IEC 60079-1:2007 ed. 6 to IEC 60079-1: 2014 ed. 7 and IEC 60079-7:2006 ed. 4 to IEC 60079-7: 2017 ed. 5.1.



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Ex COMPONENT CERTIFICATE

Certificate No.: **IECEX EPS 11.0014U** Page 1 of 4 **Certificate history:**
Status: **Current** Issue No: 2 Issue 1 (2013-12-19)
Date of Issue: 2022-11-28 Issue 0 (2012-03-29)
Applicant: **Quintex GmbH**
i_Park Tauberfranken 13
97922 Lauda-Koenigshofen
Germany
Ex Component: Explosion-proof ammeter module, QX0205-...
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: **eb, mb, tb**
Marking: Ex eb IIC Gb, Ex eb mb IIC Gb
Ex tb IIIC Db

Approved for issue on behalf of the IECEx
Certification Body:

Position:

Signature:
(for printed version)

Date:
(for printed version)



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Germany





IECEX Certificate of Conformity

Certificate No.: **IECEX EPS 11.0014U** Page 2 of 4

Date of issue: 2022-11-28 Issue No: 2

Manufacturer: **Quintex GmbH**
i_Park Tauberfranken 13
97922 Lauda-Koenigshofen
Germany

Manufacturing locations: **Quintex GmbH**
i_Park Tauberfranken 13
97922 Lauda-Koenigshofen
Germany

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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 60079-18:2014 Explosive atmospheres – Part 18: Equipment protection by encapsulation "m"
Edition:4.0

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

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:

DE/EPS/ExTR12.0010/02

Quality Assessment Report:

DE/EPS/QAR11.0001/12



IECEx Certificate of Conformity

Certificate No.: **IECEx EPS 11.0014U**

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Date of issue: 2022-11-28

Issue No: 2

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

The explosion-proof current measuring modules of the QX0205 series are components with the type of protection increased safety "eb" as well as encapsulation resistant to potting "mb". The cover and the housing installation result in the dust explosion protection "tb".

The components are used for measuring and displaying current in potentially explosive atmospheres and are intended for use in enclosures that comply with a suitable protection concept in accordance with IEC 60079-0 and offer at least IP64 protection.

Electrical data:

Ammeter ("e" type): 0~1 A, 0~5 A, 0~10 A, AC 50/60 Hz

Voltmeter ("m" type): 0~10 V, 0~25 V, 0~40 V, 0~50 V, 0~100 V, 0~120 V, 0~150 V, 0~250 V, 0~300 V, 0~500 V AC 50/60 Hz

Ammeter ("m" type): 0~20/40 mA, 4~20/40 mA AC 50/60 Hz

Connection type: terminal 2.5 mm²

Service temperature: -40 °C to +95 °C

SCHEDULE OF LIMITATIONS:

If the product contains certified parts or safety-critical components, the manufacturer must ensure that changes to these parts or components do not affect the conformity of the certified product that is the subject of this certificate.

Each device must be installed in an appropriately sized and certified enclosure that provides a minimum degree of protection of IP64. When the equipment is installed in enclosures of the Increased Safety degree of protection according to the IEC 60079-7 standard, the clearances and creepage distances according to section 4.3 and 4.4 and Table 2 must be respected.

The tightening torque of the wiring screw is 1.2 Nm and the tightening torque of the EXM ammeter frame is 1.1 Nm.

Each unit must be subjected to a routine dielectric strength test in accordance with IEC 60079-7 Section 7.1. The voltage must be at least 2000 V AC and the time must be at least 60 seconds. The test must be performed between the input terminals and the enclosure. No flashover or breakdown shall occur during the test.



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Date of issue: 2022-11-28

Issue No: 2

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

- Update to the new standards: IEC 60079-0 ed. 5 to IEC 60079-0: 2017 ed. 7 and IEC60079-7:2006 ed. 4 to IEC 60079-7: 2017 ed. 5.1.



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Ex COMPONENT CERTIFICATE

Certificate No.: **IECEX EPS 11.0015U** Page 1 of 4 Certificate history:
Status: **Current** Issue No: 2 Issue 1 (2013-12-19)
Date of Issue: 2022-11-28 Issue 0 (2012-03-29)
Applicant: **Quintex GmbH**
i_Park Tauberfranken 13
97922 Lauda-Koenigshofen
Germany
Ex Component: Explosion-proof signal lamp with button module, type QX0212-...
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: **db, eb, tb**
Marking: Ex db eb IIC Gb
Ex tb IIIC Db

Approved for issue on behalf of the IECEX
Certification Body:

Position:

Signature:
(for printed version)

Date:
(for printed version)

Ulrich Feike

Certification Manager

2022-11-28



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IECEX Certificate of Conformity

Certificate No.: **IECEX EPS 11.0015U**

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Date of issue: 2022-11-28

Issue No: 2

Manufacturer: **Quintex GmbH**
i_Park Tauberfranken 13
97922 Lauda-Koenigshofen
Germany

Manufacturing
locations: **Quintex GmbH**
i_Park Tauberfranken 13
97922 Lauda-Koenigshofen
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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 60079-1:2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

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:

[DE/EPS/ExTR12.0011/02](#)

Quality Assessment Report:

[DE/EPS/QAR11.0001/12](#)



IECEx Certificate of Conformity

Certificate No.: **IECEx EPS 11.0015U**

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Date of issue: 2022-11-28

Issue No: 2

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

The QX0212 Series Explosion-proof Signal Lamp with Button Module is a component with combined levels of protection flameproof "db" and increased safety "eb". The lamp compartment is flameproof "db", and the terminals are increased safety "eb".

The module is provided with the function of a control switch.

The installation method of QX0212 is divided into three types: board front, board back and panel mounting. Type board front is used to install with rail, type board back is used to install behind panel.

The final determination of a temperature class of the enclosure takes place after complete assembly according to the specifications of IEC 60079-7.

Electrical data:

QX-0212- ___ 1 _:

Signal lamp: 20 – 250 V AC / DC

Button: 250 V AC 10 A

24 V DC 1 A

QX-0212- ___ 3 _:

Signal lamp: 10 – 28 V AC / DC

Button: 250 V AC 10 A

24 V DC 1 A

QX-0212- ___ 4 _:

Signal lamp: 55 – 277 V AC / DC

Button: 250 V AC 10 A

24 V DC 1 A

SCHEDULE OF LIMITATIONS:

Ambient temperature range:

-40 °C to +60 °C (for types QX-0212- ___ 1L, QX-0212- ___ 3L, QX-0212- ___ 4L).

-55 °C to +60 °C (for types QX-0212- ___ 1H, QX-0212- ___ 3H, QX-0212- ___ 4H)

Service temperature range:

-40 °C to +90 °C (for types QX-0212- ___ L)

-55 °C to +90 °C (for types QX-0212- ___ H)

If the product contains certified parts or safety-critical components, the manufacturer must ensure that changes to these parts or components do not affect the conformity of the certified product that is the subject of this certificate.

The dimensions of the flameproof joints differ from those of IEC 60079-1 Table 3 and therefore shall not be repaired.

The explosion-proof signal lamp with operating function of the QX-0212 series must be installed in an appropriately certified enclosure with at least IP64. The clearances and creepage distances according to sections 4.3, 4.4 and Table 2 (IEC 60079-7) shall be fulfilled.

The dielectric strength test must be carried out in accordance with subchapter 7.1 of IEC 60079-7.



IECEX Certificate of Conformity

Certificate No.: **IECEX EPS 11.0015U**

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Date of issue: 2022-11-28

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

- Update to the new standards: IEC 60079-0 ed. 5 to IEC 60079-0: 2017 ed. 7, IEC 60079-1:2007 ed. 6 to IEC 60079-1: 2014 ed. 7 and IEC 60079-7:2006 ed. 4 to IEC 60079-7: 2017 ed. 5.1.