



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

Certificate No.: **IECEx BVS 17.0094X**

Page 1 of 5

Certificate history:

Status: **Current**

Issue No: 5

[Issue 4 \(2024-09-27\)](#)

[Issue 3 \(2024-06-05\)](#)

[Issue 2 \(2020-07-21\)](#)

[Issue 1 \(2020-05-12\)](#)

[Issue 0 \(2018-03-07\)](#)

Date of Issue: 2025-04-17

Applicant: **ifm electronic gmbh**
Friedrichstraße 1
45128 Essen
Germany

Equipment: **Inductive sensor type DI***A**

Optional accessory:

Type of Protection: **Protection by Enclosure "t"**

Marking: **Ex tc IIIC T80°C Dc**

Approved for issue on behalf of the IECEx
Certification Body:

Deniz Pezzutto

Position:

Certification Manager

Signature:
(for printed version)

Date:
(for printed version)

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 www.iecex.com or use of this QR Code.



Certificate issued by:

DEKRA Testing and Certification GmbH
Certification Body
Dinnendahlstrasse 9
44809 Bochum
Germany





IECEx Certificate of Conformity

Certificate No.: **IECEx BVS 17.0094X**

Page 2 of 5

Date of issue: 2025-04-17

Issue No: 5

Manufacturer: **ifm electronic gmbh**
Friedrichstrasse 1
45128 Essen
Germany

Manufacturing
locations: **ifm efector gmbh**
ifm-Strasse 1
88069 Tettnang
Germany

ifm efector s.r.l.
Str. L (50) Nr. 3
557085 Com. Christian jud. Sibiu
Romania

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 60079-31:2022](#) 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 Report:

[DE/BVS/ExTR18.0012/04](#)

Quality Assessment Report:

[DE/BVS/QAR06.0010/15](#)



IECEx Certificate of Conformity

Certificate No.: **IECEx BVS 17.0094X**

Page 3 of 5

Date of issue: 2025-04-17

Issue No: 5

EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Subject and Type

Inductive sensor type DI***¹⁾A

¹⁾ DI103A, DI520A, DI521A, DI522A, DI523A, DI524A, DI604A and DI605A

Description

The inductive sensor is used for rotation speed monitoring and is built in type of protection Protection by Enclosure "tc" for use in areas with EPL Dc.

The enclosure consists of a metal tube and plastic covers. The types DI103A, DI520A and DI523A have a permanently installed supply cable. The types DI521A, DI522A, DI524A DI604A and DI605A are used with M12 connector together with the separately certified socket and plug type EVC**A.

SPECIFIC CONDITIONS OF USE: YES as shown below:

The inductive sensor must be mounted protected against mech. damage > 4 J and UV radiation.



IECEx Certificate of Conformity

Certificate No.: **IECEx BVS 17.0094X**

Page 4 of 5

Date of issue: 2025-04-17

Issue No: 5

Equipment (continued):

Parameters

DI103A:

Rated voltage	20 .. 250	V AC/DC
Rated current	200	mA AC
	100	mA DC
Ambient temperature range	-20 °C ... +60 °C	

DI520A, DI521A, DI522A, DI523A and DI524A:

Rated voltage	10 ... 36	V DC
Rated current	250	mA
Ambient temperature range	-20 °C ... +60 °C	

DI604A, DI605A:

Rated voltage	10 ... 30	V DC
Rated current	250	mA (OUT1)
	100	mA (OUT2)
Ambient temperature range	-20 °C ... +60 °C	



IECEx Certificate of Conformity

Certificate No.: **IECEx BVS 17.0094X**

Page 5 of 5

Date of issue: 2025-04-17

Issue No: 5

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Clarification of manufacturer/manufacturer locations.