



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	IECEx BVS 08.0041U	Issue No.:0	Certificate history:
Status:	Current		
Date of Issue:	2008-08-26	Page 1 of 3	
Applicant:	ifm electronic gmbh Teichstrasse 4 45127 Essen Germany		
Electrical Apparatus:	Socket type EVC0*A		
Optional accessory:			
Type of Protection:	Protection by enclosures 'tD'; Construction, test and Marking of Type of Protection "n" electrical apparatus		
Marking:	Ex nA Ex tD A21 IP67		
Approved for issue on behalf of the IECEx Certification Body:	Dr. R. Jockers		
Position:	Head of Certification Body		
Signature: (for printed version)			
Date:	<u>26.08.2008</u>		

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 the Official IECEx Website.

Certificate issued by:

DEKRA EXAM GmbH
Dinnendahlstrasse 9
44809 Bochum
Germany

 **DEKRA**
DEKRA EXAM GmbH



IECEx Certificate of Conformity

Certificate No.: IECEx BVS 08.0041U

Date of Issue: 2008-08-26

Issue No.: 0

Page 2 of 3

Manufacturer: **ifm electronic gmbh**
Teichstrasse 4
45127 Essen
Germany

Manufacturing location(s):

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 electrical apparatus 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 60079-15 : 2005-03

Edition: Ed 3

Electrical apparatus for explosive gas atmospheres Part 15: Construction, test and Marking of Type of Protection "n" electrical apparatus

IEC 61241-0 : 2004

Edition: 1

Electrical apparatus for use in the presence of combustible dust - Part 0: General requirements

IEC 61241-1 : 2004

Edition: 1

Electrical apparatus for use in the presence of combustible dust - Part 1: Protection by enclosures "tD"

*This Certificate **does not** indicate compliance with electrical 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/ExTR08.0046/00

Quality Assessment Report:

DE/BVS/QAR06.0010/01



IECEx Certificate of Conformity

Certificate No.: IECEx BVS 08.0041U

Date of Issue: 2008-08-26

Issue No.: 0

Page 3 of 3

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Description

The 90° angled M12 sockets type EVC0*A have 4 pins and a potted 4-wire cable. They are equipped with a stainless steel lock nut to fasten the socket at the equipment. A special fastening technique protects against unintended loosening.

The sockets have to be connected to a metallic counterpart which meets the 3D requirements according to IEC 61241-0 and IEC 61241-1 and which has a M12 size.

The sockets have to be protected against an impact energy > 4J.

The sockets have to be protected against UV emitting light.

The lock nut has to be fastened with a tightening torque of 1.2...1.5Nm.

The cables have to be installed in a fixed manner and have to be protected against mechanical damage

Model/type reference

EVC0*A

EVC04A 4-pole M12 socket, angled, cable length 2 m

EVC05A 4-pole M12 socket, angled, cable length 5 m

EVC06A 4-pole M12 socket, angled, cable length 10 m

Ratings

Rated voltage: AC / DC 60 V

current carrying capacity 2 A

Tightening torque of lock nut 1.2 ... 1.5 Nm

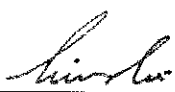
CONDITIONS OF CERTIFICATION: NO



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Certificate No.:	IECEx BVS 08.0041U	issue No.:1	Certificate history: Issue No. 1 (2009-7-16) Issue No. 0 (2008-8-26)
Status:	Current		
Date of Issue:	2009-07-16	Page 1 of 4	
Applicant:	ifm electronic gmbh Teichstrasse 4 45127 Essen Germany		
Electrical Apparatus: Optional accessory:	Sockets and plugs type EVC**A		
Type of Protection:	Protection by enclosures 'tD'; Construction, test and Marking of Type of Protection "n" electrical apparatus		
Marking:	Ex nA Ex tD A21 IP67		
Approved for issue on behalf of the IECEx Certification Body:	H.-Ch. Simanski		
Position:	Head of Certification Body		
Signature: (for printed version)			
Date:	16.07.2009		

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DEKRA EXAM GmbH



IECEx Certificate of Conformity

Certificate No.: IECEx BVS 08.0041U

Date of Issue: 2009-07-16

Issue No.: 1

Page 2 of 4

Manufacturer: ifm electronic gmbh
Teichstrasse 4
45127 Essen
Germany

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DE/BVS/ExTR08.0046/01

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DE/BVS/QAR06.0010/01



IECEx Certificate of Conformity

Certificate No.: IECEx BVS 08.0041U

Date of Issue: 2009-07-16

Issue No.: 1

Page 3 of 4

Schedule

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The sockets have to be protected against an impact energy > 4J.

The sockets have to be protected against UV emitting light.

The lock nut has to be fastened with a tightening torque of 1.2...1.5Nm.

The cables have to be installed in a fixed manner and have to be protected against mechanical damage

Model/type reference

Sockets and plugs type EVC**

**length of cable (0.1...100m)

Ratings

Rated voltage: AC / DC 60 V

current carrying capacity 2 A

Tightening torque of lock nut 1.2 ... 1.5 Nm

CONDITIONS OF CERTIFICATION: NO



IECEX Certificate of Conformity

Certificate No.: IECEx BVS 08.0041U

Date of Issue: 2009-07-16

Issue No.: 1

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

Angled M12 plugs with a contact carrier made of Grivory GV-6H black or grey are added.
The type code changes to EVC**A, the two stars represents the length of the cable.



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Certificate No.: IECEx BVS 08.0041U issue No.: 2 Certificate history:
Issue No. 2 (2010-11-8)
Issue No. 1 (2009-7-16)
Issue No. 0 (2008-8-26)

Status: Current

Date of Issue: 2010-11-08 Page 1 of 4

Applicant: **ifm electronic gmbh**
Friedrichstraße 1
45128 Essen
formerly
Teichstrasse 4
45127 Essen
Germany

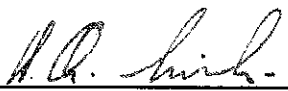
Electrical Apparatus: **Socket type EVC0*A**
Optional accessory:

Type of Protection: **Protection by enclosures 'tD'; Construction, test and Marking of Type of Protection "n" electrical apparatus**

Marking: **Ex nA**
Ex tD A21 IP67

Approved for issue on behalf of the IECEx
Certification Body: H.-Ch. Simanski

Position: Head of Certification Body

Signature:
(for printed version) 

Date: 8/11/2010

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Germany

 **DEKRA**
DEKRA EXAM GmbH



IECEx Certificate of Conformity

Certificate No.: IECEx BVS 08.0041U

Date of Issue: 2010-11-08

Issue No.: 2

Page 2 of 4

Manufacturer: **ifm electronic gmbh**
Friedrichstrasse 1
45128 Essen
formerly
Teichstrasse 4
45127 Essen
Germany

Manufacturing location(s):

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IECEx Certificate of Conformity

Certificate No.: IECEx BVS 08.0041U

Date of Issue: 2010-11-08

Issue No.: 2

Page 3 of 4

Schedule

EQUIPMENT:

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Description (still valid)

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Model/type reference (still valid)

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EVC04A 4-pole M12 socket, angled, cable length 2 m

EVC05A 4-pole M12 socket, angled, cable length 5 m

EVC06A 4-pole M12 socket, angled, cable length 10 m

Ratings (still valid)

Rated voltage: AC / DC 60 V

current carrying capacity 2 A

Tightening torque of lock nut 1.2 ... 1.5 Nm

CONDITIONS OF CERTIFICATION: NO



IECEx Certificate of Conformity

Certificate No.: IECEx BVS 08.0041U

Date of Issue: 2010-11-08

Issue No.: 2

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

for issues 2 and above

The applicant's address and the address of the manufacturer have changed as given above.