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 EXA 17.0006X**	Page 1 of 3	Certificate history:
Status:	**Current**	Issue No: 0	
Date of Issue:	2017-04-28		
Applicant:	**EXCEN S.r.l.** Via Marcora 61/69; 20097 San Donato Milanese MI **Italy**		
Equipment:	**Two poles connectors type CNB-...**		
Optional accessory:			
Type of Protection:	**Ex db, Ex tb**		
Marking:	Ex db I Mb Ex db IIC T6...T3 Gb Ex tb IIIC T75°C...T150°C Db		

Approved for issue on behalf of the IECEx Certification Body: **Stipo Đerek**

Position: **Head of certification body**

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:

Agencija za prostore ugrožene eksplozivnom atmosferom (Ex-Agencija)
Industrijska 25
HR-10431 Sveta Nedelja
Croatia

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Manufacturer: **EXCEN S.r.l.**
Via Marcora 61/69; 20097 San Donato Milanese MI
Italy

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 60079-0:2011 Explosive atmospheres - Part 0: General requirements
Edition:6.0

IEC 60079-1:2014 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

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:

HR/EXA/ExTR17.0007/00

Quality Assessment Report:

FR/INE/QAR11.0011/04

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EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

The connectors series CNB-... are made in aluminium alloy, stainless steel, carbon steel, brass or bronze. They consists of two parts, a male and a female connector.

Rated data:

Voltage: 120 V dc;

Current: 350 A (CNB-1, CNB-2); 476 A (CNB-3*); 1075 A (CNB-3*)

Current (auxiliary contact): 10 A

Tamb= -60° to +60°C

Operating and maintenance instructions for connectors CNB (10 pgs.) No. 53545 dated 04.10.2016.

SPECIFIC CONDITIONS OF USE: YES as shown below:
The flameproof joints have different values from those specified in the tables of the IEC 60079-1 standard. For information regarding the dimensions of the flameproof joints contact the manufacturer.

If the user will change the screws, it is imperative that new screws have quality of at least A*-70 or 8.8.

Annex:

IECEx EXA 17.0006X_ISSUE No_00_annex_01.pdf

Temperature class for connectors series CNB-1 and CNB-2:

Tamb	Tclass	Tsurface [°C]	Tcable [°C]	Max. current [A]
40°C	T4	125	124	350
	T5	90	90	350
	T5	90	90	275
	T6	75	75	250
	T6	75	75	200
45°C	T4	130	129	350
	T4	95	95	350
	T5	95	95	275
	T6	80	95	250
	T6	80	79	200
50°C	T4	100	100	350
	T4	100	100	275
	T5	85	84	250
	T5	85	84	200
55°C	T4	105	105	350
	T4	105	105	275
	T5	90	89	250
	T5	90	89	200
60°C	T4	110	110	350
	T4	110	110	275
	T5	95	94	250
	T5	95	94	200

Temperature class for connectors series CNB-3*:

Tamb	Tclass	Tsurface [°C]	Tcable [°C]	Max. current [A] 1 connector	Max. current [A] 2 connectors
40°C	T4	115	120	425	919
	T4	130	135	476	1075
	T5	95	100	358	710
	T6	80	85	307	554
45°C	T3	135	140	476	1075
	T4	115	120	408	867
	T5	95	100	307	554
	T6	80	85	290	502
50°C	T3	140	145	476	1075
	T4	130	135	442	971
	T5	95	100	324	606
	T6	80	85	273	449
55°C	T3	145	150	476	1075
	T4	130	135	425	919
	T5	95	100	307	554
	T6	80	85	256	397
60°C	T3	150	155	476	1075
	T4	110	120	358	710
	T4	130	135	408	867
	T5	95	100	290	502
	T6	80	85	240	345