



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 EXA 17.0008X

Issue No: 0

Certificate history:

Issue No. 0 (2017-07-24)

Status: **Current**

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Date of Issue: **2017-07-24**

Applicant: **Giovenzana International B.V.**
Strawinskylaan 1105
1077 XX Amsterdam
The Netherlands

Equipment: **Rotary gear limit switch FGR2...EX series**

Optional accessory:

Type of Protection: **Ex dc; Ex ec; Ex tb**

Marking:

Ex dc ec IIB T5 Gc

Ex tb IIIC T85°C Db

Approved for issue on behalf of the IECEx
Certification Body:

Damir Korunić

Position:

Director General

Signature:
(for printed version)

Date:



Damir Korunić

2017-07-24

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](http://www.iecex.com).

Certificate issued by:

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





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Manufacturer: **Giovenzana International B.V.**
Strawinskylaan 1105
1077 XX Amsterdam
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Additional 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 60079-0 : 2011 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-1 : 2014-06 Edition:7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-31 : 2013 Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
IEC 60079-7 : 2015 Edition:5.0	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

*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:

[HR/EXA/ExTR17.0010/00](#)

Quality Assessment Report:

[IT/IMQ/QAR15.0002/01](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The rotary gear limit switch FGR2-EX is an equipment used to control the number of rotation or direction angle of industrial and building machines. The equipment is designed with 3 parts: the bottom box (cast aluminum alloy), middle body (cast aluminum alloy) and plastic cover. Inside of enclosure 4 or 6 microswitches (type MFI-EX, IECEx EXA 17.0002U; Ex dc ec IIB Gc) are used.

For cable entry enclosure has two threaded holes intended for installation of certified cable glands. For installation cable with thermal resistance $\geq 90^{\circ}\text{C}$ is required.

Technical data:

$U_i = 250 \text{ V a.c.}; I_{th} = 8 \text{ A}$

$I_e = 8 \text{ A} - 250 \text{ V a.c.}$; resistive load

$I_e = 1 \text{ A} - 250 \text{ V a.c.}$; inductive load ($\cos\varphi = 0,6$)

Manufacturer's instruction for use No. I.4.20.17 dated 2016-07

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. Rotary gear limit switch is tested with lower impact energy and it is intended to be used in areas with lower risk of mechanical danger.
2. Rotary gear limit switch has a plastic enclosure that constitutes a potential electrostatic hazard. The enclosure must be cleaned only with a damp cloth.