



TYPE EXAMINATION CERTIFICATE

[1]

[2] Component Intended for use on/in an Equipment or Protective System Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU.

[3] Type Examination Certificate Number: **FIDI 21 ATEX 0066U** Issue: **1**

[4] Product: **Microswitches**

Type: **MFI-Ex series**

[5] Manufacturer: **Giovenzana International B.V.**

[6] Address: **WTC Strawinsky laan 1105, 1077 XX – Amsterdam, Netherlands**

[7] This product and any acceptable variation thereto is specified in the schedule to this certificate and documents therein referred to.

[8] FIDITAS Ltd., Certification Body certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II of the Directive.

The examination and test results are recorded in confidential Report No: **FIDI 21 CR 048**

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018

EN 60079-1:2014

EN IEC 60079-7:2015 / A1:2018

except in respect of those requirements listed at item 18 of the Schedule.

[10] The sign 'U' is placed after the certificate number. It indicates that this certificate must not be mistaken for a certificate intended for an equipment or protective system. This partial certification may be used as a basis for certification of an equipment or protective system.

[11] This Type Examination Certificate relates only to the design, examination and test of the specified product in accordance with Annex III. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

[12] The marking of the product shall include the following:



II 3G Ex dc ec IIB Gc

Our ref.: 21 CRT 331

Date: 09.09.2022



FIDITAS Ltd.
Certification department

Approved:

Marino Kelava, M.E.Eng.



[13]

SCHEDULE

[14]

TYPE EXAMINATION CERTIFICATE No.:

FIDI 21 ATEX 0066U

[15]

Description of product

The component microswitch MFI is intended to be used as NO or NC contact in an area requiring EPL Gc. The MFI-EX is designed with NO contact and NC (Positive opening NC contact) in silver alloy.

The contacts are protected by a thermoplastic resin enclosure (PA66 and PC), and the box and the cover are designed such in the way to avoid that the flame can pass through the joints, when coupled together with the rest of components (terminals and actuator).

The actuator is a pin plunger type, it's made in glass reinforced PA66 and it could be pressed directly or by several kind of levers.

Those apparatus are designed in accordance with the requirements of the types of protection "dc" and "ec" and is consider as components. The MFI-EX apparatus is designed with screw terminals.

Type designation: MFI * EX

(* could be "space" and its meaning that the knob is the pin plunger or * could be a number from 1 to 7 and its meaning that the knob is actuated by a type of lever).

Technical data:

Rated voltage: 250 V AC

Rated current: 8A - 250V (resistive load)
1A - 250V (inductive load $\cos \varphi=0.6$)

Service temperature: -20°C to +89°C

[16]

Confidential Report No.

FIDI 21 CR 048

[16.1] Routine testing

None

[17]

Schedule of Limitations

1. The microswitch is a Ex component intended for internal mounting. Manufacturer's instruction for use shall be followed.
2. Service temperature range of the microswitch is -20°C to +89°C.

[18]

Essential Health and Safety Requirements

Covered by the conformity with harmonized standards listed under item 9.



[19] Drawings and Documents

Title:	Drawing No.:	Rev. level:	Date:
Technical File Serie MFI-EX	Doc.N.°I.4.20.12	01	01.2022.
Microswitch in Ex "dc" "ec" EXECUTION			
Standard compliance gap analysis	TN_142012_Annex 7_Gap_0 /		01.2022.
Safety, Use and Maintenance Instructions	I.4.20.06	01	01.2022.
Micro MFI-Ex Serie	MFI-Ex	1.1	07.09.2022.
DWG - Assembly	MFIST0	00	16.06.2016.
DWG - Knob (pin plunger)	VKPF001	00	16.06.2016.
DWG - Case	VKCA001	00	16.06.2016.
DWG - Cam for positive opening	VKSP002	00	16.06.2016.
DWG - Moving contact	VKSP001	00	16.06.2016.
DWG - Rocking arm	VKLE001	00	16.06.2016.
DWG - Terminal with contact	VKAN003	00	16.06.2016.
DWG - Cover	VKCO001	00	16.06.2016.
DWG - Contact	VKCP003	00	16.06.2016.
DWG - Contact	VKCP001	00	16.06.2016.
DWG - Terminal nut	VKNU001	00	16.06.2016.
DWG - Terminal with contact	VKTP004	00	16.06.2016.