



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

Certificate No.: **IECEX JSH 23.0007X** Page 1 of 3 [Certificate history:](#)  
Status: **Current** Issue No: 0  
Date of Issue: **2023-12-20**  
Applicant: **FAMOR S.A.**  
**ul. Kaszubska 25**  
**85-048 Bydgoszcz**  
**Poland**  
Equipment: **Control Column type IS3303-11**  
Optional accessory:  
Type of Protection: **Flameproof enclosure "d", increased safety "e"**  
Marking: **Ex db eb IIB T4 Gb**

Approved for issue on behalf of the IECEx  
Certification Body:

**Damian Wróbel**

Position:

**Head of ExCB**

Signature:  
(for printed version)

Date:  
(for printed version)

**20.12.2023**

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2. This certificate is not transferable and remains the property of the issuing body.
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Certificate issued by:

**J.S. Hamilton Poland Sp. z o.o**  
**Wyzwolenia 14**  
**Siemianowice Śląskie 41-103**  
**Poland**

 **HAMILTON**



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Date of issue: 2023-12-20

Issue No: 0

Manufacturer: **FAMOR S.A.**  
ul. Kaszubska 25  
85-048 Bydgoszcz  
Poland

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 60079-0:2017** Explosive atmospheres - Part 0: Equipment - General requirements  
Edition:7.0

**IEC 60079-1:2014** Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"  
Edition:7.0

**IEC 60079-7:2015** Explosive atmospheres – Part 7: Equipment protection by increased safety "e"  
Edition:5.0

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:

[PL/JSH/ExTR23.0008/00](#)

Quality Assessment Report:

[PL/JSH/QAR23.0002/00](#)



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## EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The steering column is designed for installation on ships in rooms and spaces constituting zones 1 and 2 of gas and liquid vapor explosion hazard. The column consists of two basic elements: a bowl - in which the electrical apparatus is built-in and a base - in which a increased safety terminal box with terminals for connecting external circuits is built. The canopy, when not in use, is closed with a cover protecting the device against the influence of weather conditions. Control lights, a joystick, an emergency stop button and a digital indicator are built into the roof panel of the canopy. An anti-condensation heater is built inside the column housing.

## Technical characteristics:

Ambient temperature range	-40 °C ≤ Tamb ≤ +45 °C
Ingress Protection	IP66 (IEC 60529)
The power supply voltage of the column	100 + 250 V AC
The supply voltage for the lamps	12+24 V AC/DC
Digital indicator supply voltage	12+24 V AC/DC
Potentiometer resistance	1kΩ - 0 - 1kΩ or 5kΩ - 0 - 5kΩ
Potentiometer power	max. 250 mW
Number of switchable outputs	max 10 pcs.
Maximum current of switchable outputs	AC 10A/400V (AC13), DC 1A/24V
Connection terminals	0-4mm <sup>2</sup> ,
Protective terminals:	internal PE: 6mm <sup>2</sup> external PE: 10mm <sup>2</sup>
Dimensions approx.	1070 x 470 x 340 mm

## SPECIFIC CONDITIONS OF USE: YES as shown below:

- The clearance of the digital indicator flameproof joint is less than permissible in IEC 60079-1. The parameters of this flameproof connector are given in the manufacturer's operating instructions.
- Screws fastening the digital indicator external elements of the flameproof cover should be of at least class 8.8, in accordance with the manufacturer's operating instructions.

