# 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 ITS 26.0026X** | Page 1 of 3 | Certificate history: |
| Status: | **Current** | Issue No: 0 | |
| Date of Issue: | 2026-10-06 | | |
| Applicant: | **ELFRI S.r.l.**<br>Via Friuli, 9<br>Gonars (UD) 33050<br>**Italy** | | |
| Equipment: | **Holding electromagnet, models EXS060, EXS070, EXS080** | | |
| Optional accessory: | | | |
| Type of Protection: | **Encapsulation 'mb'** | | |
| Marking: | Ex mb IIC T6 Gb<br>Ex mb IIIC T85°C Db | | |

| | |
|---|---|
| Approved for issue on behalf of the IECEx Certification Body: | **A M Smart** |
| Position: | **Certification Officer** |
| Signature: (for printed version) | |
| Date: (for printed version) | **2026-10-06** |

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:

**Intertek Testing & Certification Limited**
**Units C & D Imperial Park**
**Randalls Way Leatherhead**
**Surrey KT22 7TA**
**United Kingdom**

# IECEx Certificate of Conformity

Certificate No.: **IECEx ITS 26.0026X** 

Date of issue: 2026-10-06 Issue No: 0

Manufacturer: **ELFRI S.r.l.**
Via Friuli, 9
Gonars (UD) 33050
**Italy**

Manufacturing locations: **ELFRI S.r.l.**
Via Friuli, 9
Gonars (UD) 33050
**Italy**

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 60079-18:2017 Explosive atmospheres - Part 18: Protection by encapsulation "m"
Edition:4.1

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:

GB/ITS/ExTR26.0028/00

Quality Assessment Report:

GB/ITS/QAR25.0003/01

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

The product covered by this document is a holding electromagnet.

The operating principle is based on the creation of an electromagnetic field through the application of electricity to the inner enameled round copper wire coil. The component that is magnetized is the magnetic core (i.e. the central metal and outer ring surfaces of the holding electromagnet).

When powered, the electromagnet retention force is made active, and a suitable object/surface can be attracted. When the supply voltage is cut off, the electromagnet loses its retention force.

| | | EXS060 | EXS070 | EXS080 | |
|---|---|---|---|---|---|
| Retention force | | 70 | 130 | 200 | [daN] |
| Supply Voltage | | 24 | | | [Vdc] |
| Absorbed current | | 0.10 | 0.121 | 0.135 | [A] |
| Power consumption | | 2.4 | 2.9 | 3.24 | [W] |
| Degree of protection | | IP65 | | | [-] |
| Weight | | 0.90 | 1.30 | 1.70 | [kg] |
| Dimension | Øext x H x L | 60x49x86 | 70x54x97 | 80x54x107 | [mm] |
| | Øint | 30 | 35 | 40 | [mm] |

The type code of product is EXSxxx_yyy, where:

| | |
|---|---|
| EXS | Commercial name |
| xxx | Three digit to indicate the external diameter of equipment:<br>- 060<br>- 070<br>- 080 |
| yyy | Three digit to indicate the admitted product variants (variations irrelevant to EX certification) |

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

- The equipment shall be protected against direct sunlight or ultraviolet lights.
- The user shall provide the required strain relief for the supply cable.
- See user manual to minimize the risk of electrostatic charge and mechanical impact protection.
- The equipment is furnished with the supply already connected, through a suitable cable gland. The connection of the free end of the cable shall be carried out in safe zone or suitably protected, using one of the types of protection foreseen by the standard IEC 60079-0.
- An overcurrent protection device must be installed upstream of each holding electromagnet. See user manual

**Annex:**

Annex to IECEx C of C - IECEx ITS 26.0026X Issue 0.pdf

# Annex to IECEx Certificate of Conformity

| Certificate No: | IECEx ITS 26.0026X | Issue No. 0 |
|---|---|---|
| Annex No. 1 | | |

| Technical Documents | | | |
|---|---|---|---|
| Title: | Drawing No.: | Rev. Level: | Date: |
| USE AND MAINTENANCE MANUAL | UM-EXS | 00 | 27.07.2026 |
| RULES FOR PRODUCT CONFORMITY VERIFICATION TESTS | ROT-EXS | 00 | 13/01/2026 |
| EXS series - ATEX ELECTROMAGNETS RESIN CYCLE | CREA-EXS | 00 | 21.05.2026 |
| Technical Annex no. 4.1 COMPONENTS | ANN-TECH.4.1 | 00 | 13.01.2026 |
| ROUGHNESS AND GALVANIZATION TEST METHOD | MCRZ-ATEX | 1 | 29/10/2025 |
| DRAWINGS EXS060_000 | BOM EXS060_000 | 02 | 27.07.2026 |
| DRAWINGS EXS070_000 | BOM EXS070_000 | 02 | 27.07.2026 |
| DRAWINGS EXS080_000 | BOM EXS080_000 | 02 | 27.07.2026 |

# Annex to IECEx Certificate of Conformity

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|---|---|---|
| **Certificate No:** | **IECEx ITS 26.0026X** | **Issue No. 0** |
| **Annex No. 1** | | |

**IECEx Certified Components on which conformance depends:**

| Item | Description | Manufacturer | Type | Certificate No. / Standards* | Coding / Ratings |
|---|---|---|---|---|---|
| 1 | Cable gland | Pflitsch GmbH & Co. KG | Blueglobe HT | IECEx PTB 11.0019X / IEC 60079-0:2017, IEC 60079- 7:2017, IEC 60079- 31:2013 | Ex eb IIC Gb<br>Ex tb IIIC Db |

* "No applicable Technical Differences"

**Required Manufacturer Routine Testing:**

| Test | Title/Description of Test | Standard and Clause |
|---|---|---|
| 1 | The manufacturer must conduct a di-electric strength test on each unit at:<br>o 500V r.m.s. at 48Hz to 62Hz for 1s; or 700Vdc for 1s<br>o 600V r.m.s. at 48Hz to 62Hz for 100ms; or 840Vdc for 100ms<br>The test shall be carried out between each circuit and the surface of the compound or the non-metallic enclosure that, if necessary, can be clad with a conductive foil.<br>No breakdown or arcing occurs during testing | IEC 60079-18 clause 9.2 |
| 2 | The manufacturer must conduct a visual inspection on each unit. No damage shall be evident, such as cracks in the compound, exposure of the encapsulated parts, flaking, inadmissible shrinkage, swelling, decomposition, failure of adhesion (separation of any adhered parts) or softening. | IEC 60079-18 clause 9.1 |