EU TYPE-EXAMINATION CERTIFICATE

1. **EU type-examination Certificate (Module B)**
2. **Equipment or Protective System intended for use in potentially explosive atmospheres (Directive 2014/34/EU)**
3. **EU type examination certificate Nr** **ITS-I 26 ATEX 45254 X**
4. **Product:** Holding Electromagnet Series EXS
5. **Manufacturer:** Elfri S.r.l.
6. **Address:** Via Friuli, 9 Gonars (UD) 33050 Italy
7. This product and any acceptable variation thereto are specified in the schedule to this certificate and therein referred to.
8. INTERTEK ITALIA S.p.A., Notified Body n° 2575 in accordance with article 17 of the Directive 2014/34/EU of the European Parliament and Council of the 26 February 2014, certifies that the equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective system intended for use in potentially explosive atmosphere, given in Annex II of the Directive.

   The examination and tests results are recorded in confidential technical evaluation Intertek Report Nr. 106521474UDI-002
9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with EN IEC 60079-0:2018, EN 60079-18:2015, EN 60079-18:2015/A1:2017 except in respect of those requirements referred to at item 16 of the Schedule.
10. If the sign X is placed after the certificate number, it indicates that the product is subject to Specific Conditions of Use specified in the schedule to this certificate.
11. This EU-Type Examination Certificate relates only to the design and construction of the specified product. 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 2 G Ex mb IIC T6 Gb
II 2 D Ex mb IIIC T85°C Db
Tamb: -20°C ÷ +60°C

Certificate issue date
26th October 2026

Marco Simone Ghisu

Marco Simone Ghisu
Certification Officer
Intertek Italia S.p.A. (NB 2575)

00151

Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC

Signatory of EA, IAF and ILAC Mutual Recognition Agreements

This Certificate is for the exclusive use of Intertek's client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Certificate. Only the Client is authorized to permit copying or distribution of this Certificate and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek.

SCHEDULE

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13. DESCRIPTION OF THE EQUIPMENT OR PROTECTIVE SYSTEM

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 (air 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.

The product has the following ratings:

		EXS060	EXS070	EXS080	
Retention force		70	130	200	[daN]
Supply Voltage		24			[Vdc]
Absorbed current		0.10	0.12	0.14	[A]
Power consumption		2.4	2.88	3.36	[W]
Degree of protection		IP65			[-]
Weight		0.90	1.40	1.70	[kg]
Dimension	Øext x H x L	60x48x70	70x54x80	80x54x90	[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: - 060 - 070 - 080
yyy	Three digit to indicate the admitted product variants (variations irrelevant to ATEX certification)

CE Marking shall be accompanied by the identification number of the Notified Body responsible for surveillance of production.

14. DRAWINGS AND DOCUMENTS

TITLE	DOCUMENT Nr	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	01	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

Copies of the above listed documents are kept at Intertek Italia S.p.A. archive.

SCHEDULE

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15. **SPECIFIC CONDITIONS OF USE**

- The equipment shall be protected against direct sunlight or ultraviolet lights.
- The user shall provide the required strain relief for both supply cables.
- 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 EN IEC 60079-0.
- An overcurrent protection device must be installed upstream of each holding electromagnet. See user manual.

16. **ESSENTIAL HEALTH AND SAFETY REQUIREMENTS**

The relevant Essential Health and Safety Requirements have been identified and assessed in Intertek Report Nr. 106521474UDI-002 dated 07/10/2026

17. **ROUTINE (FACTORY) TESTS**

- The manufacturer must conduct a di-electric strength test on each unit at:
  - 500V r.m.s. at 48Hz to 62Hz for 1s; or 700Vdc for 1s
  - 600V r.m.s. at 48Hz to 62Hz for 100ms; or 840Vdc for 100ms

  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.
  No breakdown or arcing occurs during testing

- 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.