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(1) # EU TYPE EXAMINATION CERTIFICATE

(2) **Equipment or Protective system intended for use in potentially explosive atmospheres Directive 2014/34/EU**

(3) EU type examination certificate number: **APRAGAZ 24ATEX0238 X**

(4) Equipment or protective system: Cable glands type IR** and IB**.

(5) Manufacturer: Index Elektro B.V.

(6) Address: Harregatplein 15
3214 VP Zuidland
The Netherlands

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084 - PROD
17065

(7) This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) APRAGAZ, notified body n° 0029 in accordance with article 17 of the directive 2014/34/EU of 26 February 2014, certifies that this equipment or protective system has been found in compliance with the essential health and safety requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in annex II of the directive.

The examination and test results are recorded in the confidential file n° 18335P002.

(9) The conformity of the essential health and safety requirements has been assured by compliance with:
- EN IEC 60079-0:2018 / AC:2020-02
- EN 60079-1:2014
- EN IEC 60079-7:2015 / A1:2018
- EN 60079-31:2014

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This EU TYPE EXAMINATION CERTIFICATE relates only to the design and construction of this specified equipment or protective system in accordance with the directive 2014/34/EU. Further requirements of the directive apply to the manufacturing and supply of this equipment or protective system. These are not covered in this certificate.

(12) The marking of the equipment or protective system shall include the following:

Ex	I M2	Ex db I Mb	Ex	I M2	Ex eb I Mb
Ex	II 2 G	Ex db IIC Gb	Ex	II 2 G	Ex eb IIC Gb
Ex	II 2 D	Ex tb IIIC Db			

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(13) **SCHEDULE**

(14) **EU TYPE EXAMINATION CERTIFICATE N° APRAGAZ 24ATEX0238 X**

(15) **Description of the equipment or protective system**

- Cable glands type IR** and IB**.
- The cable glands are made of brass, brass nickel plated or stainless steel 316L.
- They comply with the following types of protection 'Ex eb', 'Ex db' and 'Ex tb'.
- Certified as group I and group II equipment.
- They are of a threaded type.
- IR** glands are glands without a two-component resin.
- IB** glands are identical to the IR** executions, but these contain an additional two-component resin.
- The maximum allowed ambient/service temperature ranges of the glands depend on the used seals and the eventual use of the two-component resin:

Use of EPDM seals:	-40°C to +100°C
Use of Silicone seals:	-60°C to +200°C
Use of two-component resin:	-45°C to +160°C

- Degree of protection: IP66.
- The complete model designation is as followed:

IXXX . x . K . x . x . x

Internal thread. Only for IRNC and IBNC:		M = Metric. N = NPT.
Material:		B = Brass. N = Brass nickel plated. S = Stainless steel 316L.
Thread:		M = Metric. Equipped with O-ring (to ensure the IP66). N = NPT.
Packing:		K = Kit, complete with all possible seals. Only K is possible.
Cable gland size: 0 to 8 as well as 01 and 12 according to tables of manual.		
Type:		IRN = Single compression cable gland. IRNC = Single compression cable gland for conduit. IRAD = Double compression cable gland. IBN = Single compression (barrier) cable gland. IBNC = Single compression (barrier) cable gland for conduit. IBAD = Double compression (barrier) cable gland.

- The IRN/IRNC types are suitable for Ex d application with unarmoured cables.
- The IRAD type is suitable for Ex d application with armoured cables.
- The IBN/IBNC types are suitable for Ex d application with unarmoured cables filled with compound.
- The IBAD type is suitable for Ex d application with armoured cables filled with compound.
- In addition, all types are suitable for Ex e and Ex t applications.

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(13) **SCHEDULE**

(14) **EU TYPE EXAMINATION CERTIFICATE N° APRAGAZ 24ATEX0238 X**

(15) Size of external threaded joints:

NPT:	3/8" NPT	1/2" NPT	3/4" NPT	1" NPT	1"1/4 NPT
	1"1/2 NPT	2" NPT	2"1/2 NPT	3" NPT	
Metric:	M16	M20	M25	M32	
	M40	M50	M63	M75	
	M90				

Details of the possible variants are detailed in the manual.

Marking

Index Elektro B.V. - Harregatplein 15 - 3214 VP Zuidland (NL)
Type identification

Ex	I M2	Ex db I Mb	Ex	I M2	Ex eb I Mb
Ex	II 2 G	Ex db IIC Gb	Ex	II 2 G	Ex eb IIC Gb
Ex	II 2 D	Ex tb IIIC Db			

CE "number of the NOBO performing the conformity to type" APRAGAZ 24ATEX0238 X
T.amb/T.service:
- With EPDM sealing device(s): -40 °C to +100 °C
- With Silicone sealing device(s): -60 °C to +200 °C
- With two-component resin: -45 °C to +160 °C

Degree of protection: IP66 (optional)

(16) The examination and test results are recorded in confidential report n° U278995.

(17) Special conditions for safe use:

- The flameproof joints are not intended to be repaired.
- For Group I execution only: The sealing devices must not be exposed to oil.
- Metric threaded glands are delivered with their O-ring and the O-ring is not allowed to be removed.
- For glands used in Ex e certified enclosures or in Ex t certified enclosures, whilst not certified Ex d, the enclosure:
  - must either have a tolerance class of 6H or higher according to ISO 965-1.
  - must either contain an ATEX certified Metric to NPT adapter.
  - for enclosures having plain entries: the use of an O-ring and counternut is mandatory.
- The internal threading of the IRNC/IBNC models can only be used for mechanical protection of electrical cables.

(18) Essential health and safety requirements:

The essential health and safety requirements are covered by the conformity to European standards listed at (9).

Additional standards that have been used during this certification:
EN IEC 60079-1:2014/AC:2018-09