



1. **EC-TYPE EXAMINATION CERTIFICATE**

2. **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres Directive 94/9/EC**

3. **EC-Type Examination Certificate Number:** ITS12ATEX17645X

4. **Equipment or Protective System:** Lighting fixtures series RLFE

5. **Manufacturer:** Cortem SpA

6. **Address:** Via Aquileia 10, 34070 Villesse, ITALY

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. Intertek Testing and Certification Limited, notified body number 0359 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this 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 systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.


The examination and test results are recorded in confidential Intertek Report 11053930MAN-001 dated September 2013

9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with standards EN 60079-0:2012, EN 60079-1:2007, EN 60079-7:2007 and EN 60079-31:2009 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 equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

11. This EC Type examination certificate relates only to the design, examination and tests of the specified equipment or protective system in accordance to the directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

12. The marking of the equipment or protective system shall include the following:-


 II 2 G Ex d e IIC T# Gb
II 2 D Ex tb IIIC T##°C Db
Tamb: -20°C to +40°/60°C

and ##, see table in equipment description for temperature classification in relation to ambient temperature range.

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K R Spence
Certification Officer
10 September 2013

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SCHEDULE

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13. Description of Equipment or Protective System

The series RLFE lighting fixtures are aluminium explosion proof housings that contain a single lamp holder with lamp and associated electrical parts. External connections for the lighting fixtures are made via a single increased safety terminal block that is mounted within the increased safety housing on the side of the main flameproof enclosure. Wiring (1.5mm² or 2.5mm²) between the main flameproof enclosure and the increased safety enclosure is protected by a threaded M16 x 1.5 certified sealed bushing.

The series RLFE lighting fixtures maybe fitted with vapours lamps (Hg, Na, Ha etc. as indicated on drawing A1-5573). The heat resistant borosilicate glass globe is mounted to the main body of the flameproof housing via an aluminium threaded ring that is sealed with a single silicon gasket and silicon resin.

An optional steel guard can be installed for further protection of the glass globe.

The following table indicates Temperature Classification in relation to ambient temperature: -

MOD	Lamp	Tamb: -20°C to +40°C	Tamb: -20°C to +60°C
		T CLASS / MAX SURFACE TEMP	T CLASS / MAX SURFACE TEMP
RLFE-80	50/70W	T5 / T93°C	T4 / T113°C
	70W HA	T5 / T93°C	T4 / T113°C
	50/80W HG	T5 / T93°C	T4 / T113°C
	100W NA	T4 / T105°C	T4 / T125°C
	100W HA	T4 / T105°C	T4 / T125°C
	125W HG	T4 / T113°C	T3 / T133°C
	150W NA	T4 / T105°C	T4 / T125°C
	150W HA	T4 / T105°C	T4 / T125°C
RLFE-100	100W NA	T5 / T94°C	T4 / T114°C
	100W HA	T5 / T94°C	T4 / T114°C
	125W HG	T5 / T94°C	T4 / T114°C
	150W NA	T5 / T94°C	T4 / T114°C
	150W HA	T5 / T94°C	T4 / T114°C
	250W HG	T3 / T155°C	T3 / T175°C
	250W NA	T4 / T112°C	T3 / T132°C
	250W HA	T4 / T112°C	T3 / T132°C
RLFE-110	250W HG	T4 / T125°C	T3 / T145°C
	250W NA	T4 / T100°C	T4 / T120°C
	250W HA	T4 / T100°C	T4 / T120°C
	400W HG	T3 / T134°C	T3 / T154°C
	400W NA	T4 / T109°C	T4 / T129°C
	400W HA	T4 / T109°C	T4 / T129°C

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14. Report Number

Intertek Report Ref: 11053930MAN-001 Dated: September 2013

15. Conditions of Certification

(a). Special Conditions for safe use.

- The manufacturer's operating and maintenance instructions shall always be followed.
- Temperatures could exceed 70°C at the cable gland or 80°C at the branching point, suitably rated cable must be selected.
- No batteries or cells are to be fitted inside the enclosure.
- Must be installed to ensure a low risk of mechanical danger.

(b). Conditions of Manufacture

- A routine dielectric strength test in accordance with clause 6.1 of EN 60079-7:2007 shall be carried out between the case and enclosure terminals at a test voltage of $(1000 + 2U_n)$ V r.m.s where U_n is the rated voltage for a period of at least 60 seconds. The tests are to be recorded.
- A routine overpressure test in accordance with EN 60079-1:2007 shall be carried out on each enclosure (including the cemented glass dome assembly) at 15.39bar and must be recorded. There shall be no leakage through the cement and no deformation or damage to the enclosure.

16. Essential Health and Safety Requirements (EHSR's)

The relevant EHSR's have been identified and assessed in Intertek Report Ref: 11053930MAN-001 Dated: September 2013.

17. Drawings and Documents

Title	Drawing No.:	Rev. Level:	Date:
Lighting fixtures RLFE Series Assembly Drawings	A1-5573	1	21.02.2012
Technical Note	A4-5572	1	21.02.2012

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