



TYPE EXAMINATION STATEMENT CATEGORY 3 EQUIPMENT

[1]

[2] **Equipment intended for use in potentially explosive atmospheres - ATEX**

[3] Type Examination Statement number: **IMQ 17 ATEX 015 X**

[4] PRODUCT: **Led lighting luminaire**
TYPE/SERIES: **SMART [4] 2.0 ATEX**

[5] MANUFACTURER: **Gewiss S.p.A.**

[6] ADDRESS: **Via Volta, 1 - 24069 Cenate Sotto (BG) - ITALY**

[7] This equipment and any acceptable variation thereto are specified in the annex to this statement and the documents therein referred to.

[8] IMQ states that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive 2014/34/EU with reference to the requirements covered by the standards below defined.

The examination and test results are recorded in Report No.: **AT19-0034855-01**

[9] Compliance with Essential Health and Safety Requirement given in the Directive, except for those listed at item 18 of the annex, has been assured by compliance with the requirements of the following standard:

EN 60079-0:2012+A11:2013; EN 60079-15:2010; EN 60079-31:2014

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

[11] This TYPE EXAMINATION STATEMENT 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 statement.

[12] The marking of the equipment or protective system shall include the following:



II3G Ex nR IIC T4/T5/T6 Gc
II3D Ex tc IIIC T75/T100°C Dc

This document is composed of **4** pages including **1** annex

**B.U. PRODUCT CONFORMITY ASSESSMENT
CERTIFICATION SECTOR – MANAGER**

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Stefano Ferrari

This Test Statement is the result of testing a sample of the product submitted, in accordance with the provisions of the specified Technical Specifications/Standards. It is issued according to product certification scheme type 1 of EN ISO/IEC 17067; therefore, it does not imply any judgment on the production and it does not permit the use of a mark of conformity. Only full reproductions of this Statement are allowed without written permission of IMQ.

[13] ANNEX

[14] Type Examination Statement number: **IMQ 17 ATEX 015 X**

[15] Description of product:

SMART [4] 2.0 ATEX is a family of Restricted breathing and dust tight led lighting luminaire for indoor and outdoor use.

[15.1] Models/Series Identification:

Type ref.	Type Designation & Characteristics	Rated voltage	Optic	Rated Power	Light source	ATEX markings
GW S4 023GSA	SMART [4] LB 4L – Stand-alone – 4000 K – 60° medium optics – Class I – IP66 – Graphite grey – ATEX version	220/240 V 50/60 Hz	Medium 60°	55 W	4 LED 4000 K	II 3G Ex nR IIC T5 Gc II 3D Ex tc IIIC T100°C Dc IP66 +5°C ≤ Ta ≤ +35°C
GW S4 024GSA	SMART [4] LB 4L – Stand-alone – 4000 K – 100° diffused optics – Class I – IP66 – Graphite grey – ATEX version	220/240 V 50/60 Hz	Diffused 100°	55 W	4 LED 4000 K	II 3G Ex nR IIC T5 Gc II 3D Ex tc IIIC T100°C Dc IP66 +5°C ≤ Ta ≤ +35°C
GW S4 033GSA	SMART [4] LB 5L – Stand-alone – 4000 K – 60° medium optics – Class I – IP66 – Graphite grey – ATEX version	220/240 V 50/60 Hz	Medium 60°	69 W	5 LED 4000 K	II 3G Ex nR IIC T5 Gc II 3D Ex tc IIIC T100°C Dc IP66 +5°C ≤ Ta ≤ +35°C
GW S4 034GSA	SMART [4] LB 5L – Stand-alone – 4000 K – 100° diffused optics – Class I – IP66 – Graphite grey – ATEX version	220/240 V 50/60 Hz	Diffused 100°	69 W	5 LED 4000 K	II 3G Ex nR IIC T5 Gc II 3D Ex tc IIIC T100°C Dc IP66 +5°C ≤ Ta ≤ +35°C
GW S4 043GSA	SMART [4] HB 4+4L – Stand-alone – 4000 K – 60° medium optics – Class I – IP66 – Graphite grey – ATEX version	220/240 V 50/60 Hz	Medium 60°	110 W	8 LED 4000 K	II 3G Ex nR IIC T4 Gc II 3D Ex tc IIIC T100°C Dc IP66 +5°C ≤ Ta ≤ +35°C
GW S4 044GSA	SMART [4] HB 4+4L – Stand-alone – 4000 K – 100° diffused optics – Class I – IP66 – Graphite grey – ATEX version	220/240 V 50/60 Hz	Diffused 100°	110 W	8 LED 4000 K	II 3G Ex nR IIC T4 Gc II 3D Ex tc IIIC T100°C Dc IP66 +5°C ≤ Ta ≤ +35°C
GW S4 053GSA	SMART [4] HB 5+5L – Stand-alone – 4000 K – 60° medium optics – Class I – IP66 – Graphite grey – ATEX version	220/240 V 50/60 Hz	Medium 60°	138 W	10 LED 4000 K	II 3G Ex nR IIC T4 Gc II 3D Ex tc IIIC T100°C Dc IP66 +5°C ≤ Ta ≤ +35°C
GW S4 054GSA	SMART [4] HB 5+5L – Stand-alone – 4000 K – 60° diffused optics – Class I – IP66 – Graphite grey – ATEX version	220/240 V 50/60 Hz	Diffused 100°	138 W	10 LED 4000 K	II 3G Ex nR IIC T4 Gc II 3D Ex tc IIIC T100°C Dc IP66 +5°C ≤ Ta ≤ +35°C
GW S4 023GSX	SMART[4] LB 4L – stand-alone – 4000K - 60° medium optics - 0,5A - Class I - IP66 - Graphite grey - ATEX version	220/240 V 50/60 Hz	Medium 60°	27 W	4 LED 4000 K	II 3G Ex nR IIC T6 Gc II 3D Ex tc IIIC T75°C Dc IP66 +5°C ≤ Ta ≤ +50°C
GW S4 024GSX	SMART[4] LB 4L – stand-alone – 4000K - 100° diffused optics - 0,5A - Class I - IP66 - Graphite grey - ATEX version	220/240 V 50/60 Hz	Diffused 100°	27 W	4 LED 4000 K	II 3G Ex nR IIC T6 Gc II 3D Ex tc IIIC T75°C Dc IP66 +5°C ≤ Ta ≤ +50°C
GW S4 033GSX	SMART[4] LB 5L – stand-alone – 4000K - 60° medium optics - 0,5A - Class I - IP66 - Graphite grey - ATEX version	220/240 V 50/60 Hz	Medium 60°	33 W	5 LED 4000 K	II 3G Ex nR IIC T6 Gc II 3D Ex tc IIIC T75°C Dc IP66 +5°C ≤ Ta ≤ +50°C
GW S4 034GSX	SMART[4] LB 5L – stand-alone – 4000K - 100° diffused optics - 0,5A - Class I - IP66 - Graphite grey - ATEX version	220/240 V 50/60 Hz	Diffused 100°	33 W	5 LED 4000 K	II 3G Ex nR IIC T6 Gc II 3D Ex tc IIIC T75°C Dc IP66 +5°C ≤ Ta ≤ +50°C
GW S4 043GSX	SMART[4] HB 4+4L – stand-alone – 4000K - 60° medium optics - 0,5A - Class I - IP66 - Graphite grey - ATEX version	220/240 V 50/60 Hz	Medium 60°	54 W	8 LED 4000 K	II 3G Ex nR IIC T6 Gc II 3D Ex tc IIIC T75°C Dc IP66 +5°C ≤ Ta ≤ +50°C
GW S4 044GSX	SMART[4] HB 4+4L – stand-alone – 4000K - 100° diffused optics - 0,5A - Class I - IP66 - Graphite grey - ATEX version	220/240 V 50/60 Hz	Diffused 100°	54 W	8 LED 4000 K	II 3G Ex nR IIC T6 Gc II 3D Ex tc IIIC T75°C Dc IP66 +5°C ≤ Ta ≤ +50°C
GW S4 053GSX	SMART[4] HB 5+5L – stand-alone – 4000K - 60° medium optics - 0,5A - Class I - IP66 - Graphite grey - ATEX version	220/240 V 50/60 Hz	Medium 60°	66 W	10 LED 4000 K	II 3G Ex nR IIC T6 Gc II 3D Ex tc IIIC T75°C Dc IP66 +5°C ≤ Ta ≤ +50°C
GW S4 054GSX	SMART[4] HB 5+5L – stand-alone – 4000K - 100° diffused optics - 0,5A - Class I - IP66 - Graphite grey - ATEX version	220/240 V 50/60 Hz	Diffused 100°	66 W	10 LED 4000 K	II 3G Ex nR IIC T6 Gc II 3D Ex tc IIIC T75°C Dc IP66 +5°C ≤ Ta ≤ +50°C

[15.2] Ratings:

220/240V - 50/60 Hz

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[15.3] Safety Ratings: -

[15.4] Ambient temperature and temperature classes:

Ambient temperature range T_{amb} : +5°C ÷ +35°C/+50°C

Temperature class is: T4/T5/T6 – T75/T100°C, according to models, as listed in [15.1].

[15.5] Degree of protection (IP code): IP66

[15.6] Warnings:

Do not open when energized

Do not open when an explosive atmosphere is present

After de-energizing, delay 15 minutes before opening

Potential electrostatic charging hazard: clean with a water-wet cloth only and allow to dry naturally

[16] Report: AT19-0034855-01

[16.1] Routine (factory) tests:

The manufacturer shall carry out the routine test prescribed at clauses 27 of EN 60079-0.

The manufacturer shall carry out dielectric strength routine test prescribed at clause 23.2.1 of EN 60079-15.

The manufacturer shall carry out restricted breathing routine test prescribed at clause 23.2.3.2.1.2 of EN 60079-15.

[16.2] Conformity with the documentation:

The manufacturer shall carry out the verifications or tests necessary to ensure that the product complies with the documentation.

Marking the equipment in accordance with Clause 29 of EN 60079-0, the manufacturer attests on his own responsibility that:

the equipment has been constructed in accordance with the applicable requirements of the relevant standards in safety matters;

the routine verifications and routine tests in 28.1 of EN 60079-0 have been successfully completed with positive results.

[16.3] Installation conditions:

Above referred equipment is foreseen to be installed in locations where there are environmental conditions, as specified at clause 1, par. 2 of EN 60079-0.

Installation and use in atmospheric and environmental conditions that are out of above mentioned intervals request special considerations and additional measures by the side of installer or user.

Use a supply cable in conformity with the applicable standards for low voltage electrical installations and for

electrical installations in hazardous areas associated with explosive atmospheres (EN 60079-14).

Install with cable glands supplied with equipment.

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[17] **Special Condition of use (X) / Schedule of limitations:**

Lighting luminaires can be used in locations with low mechanical danger only.

Lighting luminaires has not test port. Replace gasket every time the enclosure is opened.

If the external flexible cable or cord of this appliance is damaged, it shall be replaced by the manufacturer or his service

agent or a similar qualified person in order to avoid a hazard.

[18] **Essential Health and safety Requirements:**

This Statement does not indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed in [9].

This Statement does not cover hazards coming from environmental conditions different from those clearly and precisely indicated in clause 1 of EN 60079-0.

ESHR 1.2.7: According Annex VIII of the Directive

ESHR 1.4: Not verified.

ESHR 1.5: Not applied

ESHR 3: Not applied

In addition to the Essential Health and Safety Requirements (EHSRs) covered by the standards listed at [9], the following are considered relevant to this product, and conformity is demonstrated in the report:

N/A: additional Requirements for the products have not been considered.

[19] **Descriptive documents:** DL-AT19-0034855-01, rev. 0, 63 pages, dated 2019-02-26

[20] **Certification Validity Conditions:**

The present Statement is not referred to IMQ certification activities as Notified Body according to 2014/34/EU Directive. The validity of this Statement is subject to the condition that the manufacturer complies with the results of the document review and of the pertinent requirement if any included, recorded in the relevant copy of documentation as per 19.

One copy of the mentioned documentation is kept in IMQ file.

[21] **Variations:**

2018, February:

- Editorial changes
- New models have been added

2019, February:

Minor design changes