



(1) UK - Type Examination Certificate

(2) Equipment and protective systems intended for use in potentially explosive atmospheres – UKSI 2016:1107 (as amended)

(3) UK - Type Examination Certificate Number

EPS 22 UKEX 1 400

Revision 0

(4) Equipment: Tubular light fitting Type 6036 / 1. and 6036 / 3.

(5) Manufacturer: R. STAHL Schaltgeräte GmbH

(6) Address: Am Bahnhof 30
74638 Waldenburg
Germany

(7) This equipment and any acceptable variation thereto are specified in the annex to this certificate and the documentation therein referred to.

(8) Bureau Veritas Consumer Products Services United Kingdom Limited, approved body No. 8507 in accordance with UKSI 2016:1107 (as amended) Part 4, certifies that this equipment 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 Schedule 1 of UKSI 2016:1107 (as amended). The examination and test results are recorded in the confidential documentation under the reference number 13TH0313.

(9) Compliance with the essential health and safety requirements has been assured by compliance with:

EN IEC 60079-0:2018

EN 60079-1:2014

EN 60079-28:2015

EN 60079-31:2014

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

(11) This UK - Type Examination Certificate relates only to the design and construction of the specified equipment in accordance with UKSI 2016:1107 (as amended). Further requirements apply to the manufacture of this equipment and its placing on the market. Those requirements are not covered by this certificate.

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

II 2G Ex db op is IIC T6/T4 Gb



II 2D Ex tb IIIC T80°C/T100°C Db

I M2 Ex db op is I Mb



Certification department of explosion protection

Warrington, 10-02-2023

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(13)

Annex

(14) **UK - Type Examination Certificate EPS 22 UKEX 1 400**

Revision 0

(15) Description of equipment:

The tubular light fitting type 6036 / ... is an explosion-proof electrical equipment in type of protection "flameproof enclosure" ("d") and "dust protection by enclosure" ("tb"). It is used to illuminate factory shops and stores in gas hazardous areas of zone 1 and zone 2 as well as in dust hazardous areas zone 21 and zone 22. The tubular light fitting can also be used in mines susceptible to firedamp. The housing consists of a transparent polycarbonate tube with aluminium end caps, which are completely covered by rubber caps (Type 6036/1). With the variant 6036/3, the plastic end caps are heat-joined and a thread adapter is used to mount the cable gland. The electronics are located within the flameproof enclosure and are powered by a direct cable entry. The equipment is intended for fixed installation. Additional information for the safe operation can be found in the operating instructions.

Electrical data:

LEDs with Lambertian radiation characteristics

High-Power LEDs: $U_F \leq 3.3 \text{ V}$ for $I = 0.8 \text{ A}$, operation with max. 350 mA

Mid-Power LEDs: $U_F \leq 3.3 \text{ V}$ for $I = 0.12 \text{ A}$, operation with max. 120 mA

Size	Max. number High- Power-LEDs (single row) ¹⁾	Max. number Mid- Power-LEDs (single row) ²⁾	Max. number Mid- Power-LEDs (double-row) ³⁾	Resistor
1	11	33	40	$\leq 5 \Omega$
2	22	66	80	$\leq 10 \Omega$
3	33	99	120	$\leq 15 \Omega$
4	44	132	160	$\leq 20 \Omega$

¹⁾ series circuit

²⁾ series/parallel circuit, á 3 LEDs parallel

³⁾ series/parallel circuit, á 4 LEDs parallel

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Revision 0

Size	1		2	3	4
Input Power	≤12 W		≤25 W	≤35 W	≤48 W
Rated input voltage	12 V DC, 24 ... 48 V AC / DC, 110 ... 240 V AC / DC, 100 ... 277 V AC / 190 ... 250 V DC		100 ... 277 V AC / 190 ... 250 V DC		
Temperature class	T6 ¹⁾	T4	T6	T4	
max. surface temperature	T 80 °C	T 100 °C	T 80 °C	T 100 °C	
max. ambient temperature 6036/1	40 °C	70 °C ¹⁾ 40 °C	50 °C	60 °C	
max. ambient temperature 6036/3	50 °C	70 °C ¹⁾ 40 °C	50 °C	70 °C	
min. ambient temperature	-60/ -55 °C (-40 °C for mining use)				

¹⁾ not for 12V DC Variant

(16) Reference number: 13TH0313

(17) Special conditions for safe use:

Depending on the ambient temperature and execution, a routine or batch test in accordance with EN 60079-1 Section 16 may be required.

The luminaire has to be protected against intense electrostatic charging processes. Cleaning is permitted only with a damp cloth.

(18) Essential health and safety requirements:

Met by compliance with standards.



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