



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 1 224 X

Revision 0

(4) Equipment: Audible and visual signalling devices: Yodalex YL60/3, YA60/3, FL60/3

(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 22TH0272.

(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 60079-7:2015,
EN IEC 60079-7:2015+A1:2018**

**EN 60079-31:2014
(IEC 60079-31:2022)**

(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 IIC T4/T6 Gb



II 2G Ex db eb IIC T4/T6 Gb

II 2D Ex tb IIIC T80°C/T100°C Db



Certification department of explosion protection

Warrington, 09-06-2023

Natalie Wilkinson

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(13)

Annex

(14) **UK - Type Examination Certificate EPS 22 UKEX 1 224 X**

Revision 0

(15) Description of equipment:

The signalling devices YL60/3, YA60/3 and FL60/3 are explosion-protected electrical equipment in the type of protection "flameproof enclosure" ("db") and "dust protection by enclosure" ("tb") and, depending on the version, "increased safety" ("eb").

The enclosure consists of aluminium with optional glass or plastic dome or horn.

They are used in gas explosion hazardous areas Zone 1 and 2 and areas that are subject to dust explosion hazard, Zone 21 and 22. These signalling devices are used to deliver audible and visual alarm signals for alerting, warning or as an indication of a device malfunction or other safety-related problems.

Electrical Data:

Type	YL60/3	
Signalling	audible/ visual (Xenon-flash or LEDs)	
Input Voltage	12 ... 27.2 V DC (LED-Variant 21.1 ... 27.2 V DC) 100 ... 240 V AC (50/ 60 Hz); 133 ... 272 V DC	
Medium Input power	≤ 35 W (momentarily ≤ 50 W)	
Temperature class	T6 ¹⁾	T4
Max. Surface temperature (tb)	T 80 °C	T 100 °C
Ambient temperature	-60°C ... +40 °C ²⁾	-60°C ... +70 °C ³⁾

¹⁾ Temperature class T6/ T80 °C not for Xenon-Variant with plastic lens

²⁾ In-Out-Wiring with max. 16 A

³⁾ for In-Out-Wiring with max. 16 A connection line and cable entry with permissible operating temperature ≥ 90 °C required

Type	YA60/3	
Signalling	audible	
Input Voltage	12 ... 27.2 V DC 100 ... 240 V AC (50/ 60 Hz); 133 ... 272 V DC	
Medium Input power	≤ 20 W (momentarily ≤ 35 W)	
Temperature class	T6	T4
Max. Surface temperature (tb)	T 80 °C	T 100 °C
Ambient temperature	-60°C ... +50 °C ¹⁾	-60°C ... +70 °C ²⁾

¹⁾ In-Out-Wiring with max. 16 A

²⁾ for In-Out-Wiring with max. 16 A connection line and cable entry with permissible operating temperature ≥ 90 °C required

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Type	FL60/3	
Signalling	visual (Xenon-Flash or LED)	
Input Voltage	12 ... 27.2 V DC (LED-Variant 21.1 ... 27.2 V DC) 100 ... 240 V AC (50/ 60 Hz); 133 ... 272 V DC	
Average Input power	≤ 15 W (one visual Unit) ≤ 25 W (two visual Units)	
Temperature class	T6	T4 ¹⁾
Max. Surface temperature (tb)	T 80 °C	T 100 °C
Ambient temperature	-60°C ... +40 °C ^{2) 3)}	-60°C ... +70 °C ^{4) 5)}

1) additional flash energy ≤ 4.5 J/ f ≤ 1.5 Hz and ≤ 3.5 J/ f ≤ 2.0 Hz possible for Temperature class T4/ T130 °C for Variant with glass-lens

2) In-Out-Wiring with max. 16 A

3) Temperature class T6/ T80 °C not for Xenon-Variant with plastic lens

4) Temperature class T4 for Xenon-Variant with plastic lens only for Ta = -60 °C ... +60 °C

5) for In-Out-Wiring with max. 16 A connection line and cable entry with permissible operating temperature ≥ 90 °C required

all Types	Inputs
Voltage	according to device-Input voltage
Current	≤ 2 mA
Dissipation	≤ 500 mW

(16) Reference number: 21TH0591

(17) Special conditions for safe use:

A repair of a flame-proof joint is only permitted in accordance with the manufacturer's values.

The protective covers and loudspeaker horns must be installed in a way that they are protected against electrostatic charging.

Temperature Class T6/T80 °C is not allowed for Xenon variant with plastic lens.

(18) Essential health and safety requirements:

Met by compliance with standards.

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