

(1) **EU - Type Examination Certificate**

(2) Equipment and protective systems intended for use in potentially explosive atmospheres – **Directive 2014/34/EU**

(3) EU - Type Examination Certificate Number

**EPS 22 ATEX 1 224 X**

**Revision 1**

(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 Germany GmbH, notified body No. 2004 in accordance with Article 21 given in the Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014, 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 Annex II of the Directive. 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 EU - Type Examination Certificate relates only to the design and construction of the specified equipment in accordance with Directive 2014/34/EU. Further requirements of this Directive 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 T6/T4 Gb



II 2G Ex db eb IIC T6/T4 Gb

II 2D Ex tb IIIC T80°C/T100°C/T130°C Db



Certification department of explosion protection

Tuerkheim, 2024-05-07



Ulrich Feike

Certificates without signature and seal are void. This certificate is allowed to be distributed only if not modified. Extracts or modifications must be authorized by Bureau Veritas Consumer Products Services Germany GmbH.

(13)

## Annex

(14) **EU - Type Examination Certificate EPS 22 ATEX 1 224 X**

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(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"), "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 100 ... 240 V AC (50 / 60 Hz); 133 ... 272 V DC	
Average Input power	≤ 35 W (momentarily ≤ 50 W)	
Temperature class	T6 <sup>1)</sup>	T4
Max. surface temperature (tb)	T80°C	T100°C
Ambient temperature	-60 °C ... +40 °C <sup>2)</sup>	-60 °C ... +70 °C <sup>3)</sup>

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

<sup>2)</sup> In-Out-Wiring with max. 16 A

<sup>3)</sup> 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	<b>YA60/3</b>	
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)	T80°C	T100°C
Ambient temperature	-60°C ... +50°C <sup>1)</sup>	-60°C ... +70°C <sup>2)</sup>

<sup>1)</sup> In-Out-Wiring with max. 16 A

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

<b>Type</b>	<b>FL60/3</b>	
Signalling	visual (Xenon-Flash or LED)	
Input voltage	12 ... 27.2 V DC 100 ... 240 V AC (50 / 60 Hz); 133 ... 272 V DC	
Medium input power	≤ 15 W (one visual Unit) ≤ 25 W (two visual Units)	
Temperature class	T6	T4 <sup>1)</sup>
Max. surface temperature (tb)	T80°C	T130°C
Ambient temperature	-60 °C ... +40 °C <sup>2) 3)</sup>	-60 °C ... +70 °C <sup>4) 5)</sup>

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 T<sub>a</sub> = -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.



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<b>all Types</b>	<b>Inputs</b>
Voltage	according to device-input voltage
Current (total)	≤ 2 mA
Dissipation (total)	≤ 500 mW

(16) Reference number: 22TH0272

(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.

The devices with glass dome shall only be used with the protection grid provided by manufacturer.

(18) Essential health and safety requirements:

Met by compliance with standards.

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