IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEx EPS 20.0036X**

Certificate history:

Status: **Current**

Issue No: 0

Date of Issue: 2020-07-24

Applicant: **R. STAHL Schaltgeräte GmbH**
Am Bahnhof 30
74638 Waldenburg
Germany

Equipment: **Audible and visual signalling devices YL6S/2 YA6S/2 FL6S/2 YA90/2 FX15/2**

Optional accessory:

Type of Protection: **db , tb**

Marking: Ex db IIC T6/T4 Gb

Ex tb IIIC T80°C/T100°C Db

Approved for issue on behalf of the IECEx Certification Body: **Holger Schaffer**

Position: **Certification Manager**

Signature:
(for printed version)

Date:

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.

Certificate issued by:

Bureau Veritas Consumer Products Services Germany GmbH
Businesspark A96
86842 Türkheim
Germany

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Manufacturer: **R. STAHL Schaltgeräte GmbH**
Am Bahnhof 30
74638 Waldenburg
Germany

Additional manufacturing locations:

R. STAHL (P) LTD.
Plot No. 5, Malrosapuram Main Road,
Sengundram Indl. Area, Singaperumal Koil,
Tamil Nadu 603 204
India

R. STAHL Schaltgeräte GmbH
Nordstr. 10
99427 Weimar
Germany

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements.This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :
The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-1:2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:
A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

DE/EPS/ExTR20.0038/00

Quality Assessment Report:

DE/BVS/QAR10.0002/15

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EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

The signaling devices YL6S, YA6S, FL6S, YA90 and FX15 are made of glass reinforced polyester and glass dome protected by different covers and metal grid. The devices are explosion-protected electrical equipment in the types of protection "flameproof enclosure" ("d") and "dust protection by enclosure" ("tb"). They are used in hazardous location of zones 1 and 2 and zone 21 and 22. These signaling devices are used to deliver acoustic and visual alarm signals for alarming in hazardous location. IP protection is IP66.

See Annex for electric data

SPECIFIC CONDITIONS OF USE: YES as shown below:
A repair of a flame-proof joints 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.

The used screws must have a strength class that corresponds to at least A2-70.

Annex:

IECEx EPS 20.0036X - Annex_1.pdf

Elektrical Data:

Type	**YL6S/2**	
Signaling	audible/visual (Xenon-flash or LED)	
Supply voltage	12 … 24 V DC (LED-type 21,1 … 24 V DC)	
average Input power	≤ 20 W	
Temperature class	T6	T4
Max. Surface temperature (t_b)	T 80 °C	T 100 °C
Ambient temperature range	-60°C … +50 °C 1)	-60°C … +70 °C 2)

1) In/Out wiring up to 10 A

2) for In/Out wiring up to 10 A supply cable and cable gland must be suitable for service ≥ 90 °C.

Type	**YA6S/2; YA90/2**	
Signaling	audible	
Supply voltage	12 … 24 V DC	
Average Input power	≤ 12 W	
Temperature class	T6	T4
Max. Surface temperature (t_b)	T 80 °C	T 100 °C
Ambient temperature range	-60°C … +50 °C 1)	-60°C … +70 °C 2)

1) In/Out wiring up to 10 A

2) for In/Out wiring up to 10 A supply cable and cable gland must be suitable for service ≥ 90 °C.

Type	**FL6S/2; FX15/2**	
Signaling	visual (Xenon-flash or LED)	
Supply voltage	12 … 24 V DC (LED-type 21,1 … 24 V DC)	
Average Input power	≤ 9 W	
Temperature class	T6	T4
Max. Surface temperature (t_b)	T 80 °C	T 100 °C
Ambient temperature range	-60°C … +50 °C 1)	-60°C … +70 °C 2)

1) In/Out wiring up to 10 A
2) for In/Out wiring up to 10 A supply cable and cable gland must be suitable for service ≥ 90 °C.

all Types	**Control input**
Input voltage	12 … 24 V DC
Input power	≤ 20 mW
Input current	≤ 1 mA