

**Flameproof Audible Signal – 115 dB (A)**  
 Series YA90

www.stahl.de



13912E00

- > Max sound output 115 dB (A) / 1 m
- > 2 stage alarm, independently selectable 2nd stage
- > IP66 rated as standard
- > 32 selectable tones meeting international regulations
- > Light weight glass reinforced polyester (GRP) Ex enclosure
- > Sound selection via 5 way DIL switch
- > Adjustable stainless steel ratchet bracket providing positive setting
- > Enclosure finished in red high performance paint with ABS flare
- > Monitoring facility (DC voltages only)
- > Dual 20 mm gland entries as standard



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Yodalex range  
 Directional audible signal designed for use in hazardous or harsh environments.

	ATEX / IECEx						Division	NEC 500					
	0	1	2	20	21	22		Class I		Class II		Class III	
Zone							1	2	1	2	1	2	
For use in		x	x		x	x		x					

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**WebCode YA90A**

# Flameproof Audible Signal – 115 dB (A)

## Series YA90



### Explosion Protection

#### Global (IECEX)

Gas and dust

YA90/B versions:	IECEX BAS 08.0062X
YA90/C versions:	IECEX BAS 08.0061X
YA90/B+C versions:	EN 60079-0:2009, EN 60079-1:2007-04, EN 60079-31:2008
YA90/B versions:	Ex d IIB T6 Ta -60 ... +60°C Gb
YA90/C versions:	Ex d IIC T6 Ta -60 ... +60°C Gb
YA90/B+C versions:	Ex tb IIIC T85°C Ta -60 ... +60°C Db IP66

#### Europe (ATEX)

Gas and dust

YA90/B versions:	Baseefa 08 ATEX 0191 X
YA90/C versions:	Baseefa 02 ATEX 0189 X
YA90/B+C versions:	EN 60079-0:2009, EN 60079-1:2007, EN 60079-31:2009
YA90/B versions:	⊕ II 2 G Ex d IIB T6 Ta -60 ... +60°C Gb
YA90/C versions:	⊕ II 2 G Ex d IIC T6 Ta -60 ... +60°C Gb
YA90/B+C versions:	⊕ II 2 D Ex tb IIIC T85°C Ta -60 ... +60°C Db IP66

#### USA and Canada (UL variants)

Gas and dust

YA90/B+C versions:	E161818 USL: UL 464 / ISA 12.12.01-2007 CNL: CAN/ULC-S525-07, Edition 3 2007 / CSA C22.2 No. 213
YA90/B versions:	USL, CNL - Class I, Div. 2, Groups A, B, C, and D Hazardous Locations Operating temperature -60 ... +66 °C Audible signal appliance, fire alarm service private mode
YA90/C versions:	USL, CNL - Class I, Div. 2, Groups C and D Hazardous Locations Operating temperature -60 ... +66 °C Audible signal appliance, fire alarm service private mode

#### Russia (GOST R)

Gas and dust

B01836
Marking and certification based on and in line with the ATEX product.

#### Certifications and certificates

Certificates

IECEX, ATEX, Brazil (Inmetro), China (China Ex), India (PESO), Korea (KGs), Russia (GOST R), USA (UL)

#### Selection Table

Version	Group	Rated operational voltage	Order number	Art. no.	Weight kg
YA90 Sounder, ATEX certification, standard devices	IIC	24 V DC	<b>YA90/C/D/EU</b>	<b>205209</b>	4.500
		230 V AC	<b>YA90/C/N/EU</b>	<b>205214</b>	4.500
		115 V AC	<b>YA90/C/L/EU</b>	<b>206770</b>	4.500
YA90 Sounder, UL certification, standard devices	IIC	24 V DC	<b>YA90/C/D/UL</b>	<b>205365</b>	4.500
		115 V AC	<b>YA90/C/L/UL</b>	<b>205366</b>	4.500
		230 V AC	<b>YA90/C/N/UL</b>	<b>212397</b>	4.500
YA90 Sounder, IECEX certification, standard devices	IIC	24 V DC	<b>YA90/C/D/IN</b>	<b>205212</b>	4.500
		115 V AC	<b>YA90/C/L/IN</b>	<b>208871</b>	4.500
		230 V AC	<b>YA90/C/N/IN</b>	<b>212398</b>	4.500
YA90 Sounder, GOST R certification, standard devices	IIC	24 V DC	<b>YA90/C/D/RU</b>	<b>206661</b>	4.500
		115 V AC	<b>YA90/C/L/RU</b>	<b>212399</b>	4.500
		230 V AC	<b>YA90/C/N/RU</b>	<b>205217</b>	4.500

Note

Variations in gas group, voltage and certification are available  
Tag labels can be added, please contact your local sales office for more details



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## Flameproof Audible Signal – 115 dB (A) Series YA90

### Technical Data

#### Electrical data

Rated operational voltage	24 V DC, 48 V DC, 115 V AC and 230 V AC operational parameters + or -10 %	
Rated operational current	24 V DC	300 mA
	48 V DC	160 mA
	115 V AC	80 mA
	230 V AC	45 mA
	UL calculate the current using RMS Root mean square which gives the following measurement and is the figure reported on UL variant product labels:	
	24 V DC	500 mA
	48 V DC	not available UL certified variants
	115 V AC	130 mA
	230 V AC	90 mA

#### Mechanical data

Material	GRP
Enclosure	GRP
Horn	ABS Flame retardant
Fixings	stainless steel
Degree of protection	IP66 – BS EN 60529 NEMA 4X – UL 50
Enclosure entries	2 x M20 cable entries equipped with 1 x stopping plug & 1 x dust cover UL Product variants supplied with 2 x M20 / 1/2" adaptors

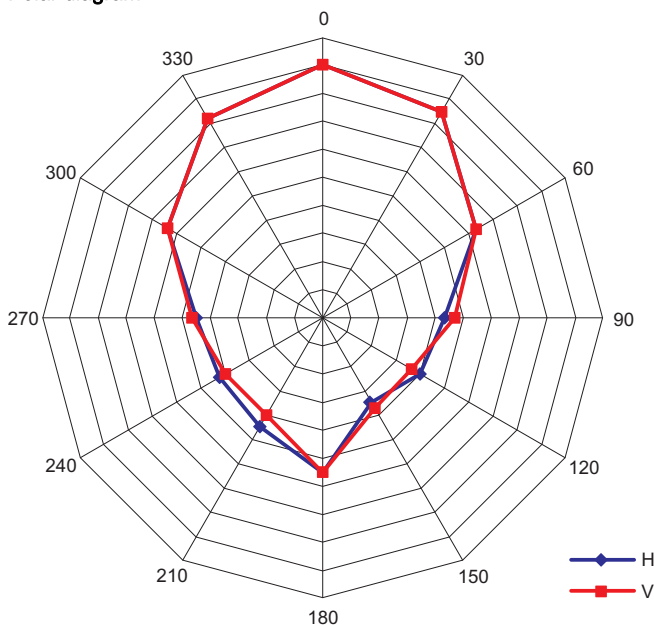
#### Ambient conditions

Ambient temperature	ATEX / IECEx: -60 ... +60 °C UL & ULC: -60 ... +66 °C
Max. relative humidity	95 % at 40 °C

#### Acoustic data

Volume	115 dB(A) / 1 m Sound output for products gas groups IIC
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#### Polar diagram



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Alarm stages	2 stage alarm
Sound selection	via DIL switch
Sound signal selection	32 All sounders have 32 sound signal selections. From the 32 sound signals, any signal may be chosen as the first stage alarm and any signal for the second stage alarm. Sound output level and current consumption depends upon the signal selected.

#### Mounting / Installation

Assembly	stainless steel mounting bracket provided, holes to suit M6, pitch 60 mm
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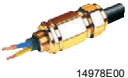
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## Series YA90

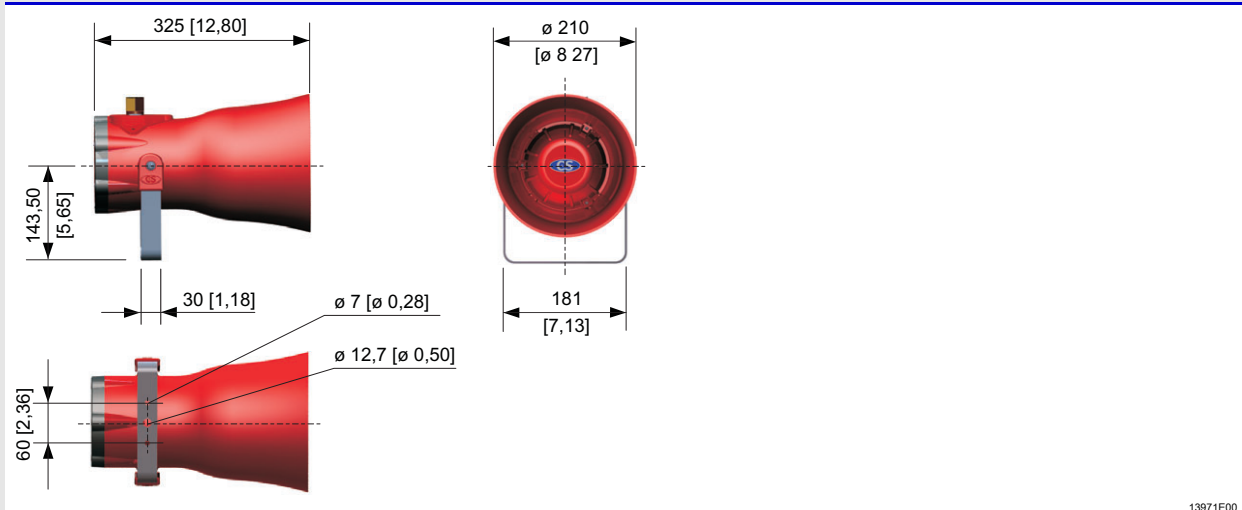


### Accessories and Spare Parts

Designation	Figure	Description	Group	Order number	Art. no.	WebCode
Cable gland	 14976E00	Compound Barrier Cable Glands Ex d and Ex e for all Types of Unarmoured Cables	IIB + H <sub>2</sub> and IIC	8163/2-20-PXSS2K-M20	138888	8163J
	 14742E00	Compound Barrier Cable Glands Ex d and Ex e for all Types of Armoured Cables	IIB + H <sub>2</sub> and IIC	8163/2-20-PX2K-M20	138875	8163I
	 14977E00	Cable Glands Ex d and Ex e for Unarmoured Cables	IIB	8163/2-20-A2F-M20	138772	8163A
	 14978E00	Triton CDS Cable Glands Ex d and Ex e for all Types of Armoured Cables	IIB	8163/2-20-T3CDS-M20	138902	8163K

Note Approvals of cable entries have to be observed.

### Dimensional Drawings (All Dimensions in mm [inches]) - Subject to Alterations



We reserve the right to make alterations to the technical data, dimensions, weights, designs and products available without notice. The illustrations cannot be considered binding.



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