

Explosion Proof Audible Signal - 110 dB(A) Series YA60



www.stahl.de



- > Omnidirectional high output sounder 110 dB (A) / 1 m
- > 2 stage alarm, independently selectable 2nd stage
- > IP66 rated as standard
- > Aluminium enclosure with stainless steel fasteners
- > 32 selectable tones meeting international regulations
- > Sound selection via DIL switch
- > Telephone initiate option available



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

	ATEX / IECEx						Zone	NEC 505 Class I			NEC 506			Division	NEC 500					
	0	1	2	20	21	22		0	1	2	20	21	22		1	2	1	2	1	2
For use in		x	x		x	x			x	x		x	x		x	x	x	x	x	x

WebCode YA60A

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Explosion Protection

Global (IECEX)

Gas and dust

IIB+H2	IECEX BAS 05.0087X
IIB	IECEX BAS 05.0086X
IIB+H2, IIB	IEC 60079-0: 2011 / IEC 60079-1: 2007-04 / IEC 60079-31: 2008
IIB+H2	Ex d IIB+H2 T4 Gb (Ta = -20 ... +60 °C) Ex tb IIIC T135°C Db IP 66 (Ta = -20 ... +60 °C) Ex d IIB+H2 T6 Gb (Ta = -20 ... +40 °C) Ex tb IIIC T85°C Db IP 66 (Ta = -20 ... +40 °C)
IIB	Ex d IIB T4 Gb (Ta = -35 ... +60 °C) Ex tb IIIC T135°C Db IP 66 (Ta = -35 ... +60 °C) Ex d IIB T6 Gb (Ta = -35 ... +40 °C) Ex tb IIIC T85°C Db IP 66 (Ta = -35 ... +40 °C)

Europe (ATEX)

Gas and dust

IIB+H2	Baseefa02ATEX0222X
IIB	Baseefa02ATEX0212X
IIB+H2, IIB	EN 60079-0: 2009 / EN 60079-1: 2007 / EN 60079-31: 2009
IIB+H2	Ⓢ II 2 GD Ex d IIB+H2 T4 Gb (Ta = -20 ... +60 °C) Ⓢ II 2 GD Ex tb IIIC T135°C Db IP 66 (Ta = -20 ... +60 °C) Ⓢ II 2 GD Ex d IIB+H2 T6 Gb (Ta = -20 ... +40 °C) Ⓢ II 2 GD Ex tb IIIC T85°C Db IP 66 (Ta = -20 ... +40 °C)
IIB	Ⓢ II 2 GD Ex d IIB T4 Gb (Ta = -35 ... +60 °C) Ⓢ II 2 GD Ex tb IIIC T135°C Db IP 66 (Ta = -35 ... +60 °C) Ⓢ II 2 GD Ex d IIB T6 Gb (Ta = -35 ... +40 °C) Ⓢ II 2 GD Ex tb IIIC T85°C Db IP 66 (Ta = -35 ... +40 °C)

USA and Canada (UL variants)

Gas and dust

IIB+H2, IIB	E161818
IIB+H2, IIB	USL: UL 60079-0 / UL 60079-1 / UL 1203 / UL 1638 CNL: CSA C22.2 No. 30-M1986 / CSA C22.2 No. 25-M1966 / CSA E60079-0-7 / CSA E60079-1
IIB+H2	Class I, Div. 1, Groups B, C and D Class I, Div. 2, Groups B, C and D Class 1 Zone 1 AEx d IIB + H ² T4 Class 1 Zone 1 Ex d IIB + H ² T4 Operating temperature -25 ... +66 °C Audible signal appliance fire alarm service private mode
IIB	Class I, Div. 1, Groups B, C and D Class I, Div. 2, Groups B, C and D Class 1 Zone 1 AEx d IIB T4 Class 1 Zone 1 Ex d IIB T4 Operating temperature -35 ... +66 °C Audible signal appliance fire alarm service private mode

Russia (GOST R)

Gas and dust

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

Certifications and certificates

Certificates

IECEX, ATEX, Brazil (INMETRO), India (PESO), Kazakhstan (GOST K), Russia (GOST R), Taiwan (ITRI), USA (UL)

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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	350 mA	
	48 V DC	300 mA	
	115 V AC	110 mA	
	230 V AC	55 mA	

Acoustic data

Volume	110 db (A) / 1 m
Sound selection	via DIL-switch

Ambient conditions

Operating temperature range	version			
	IIB	Europe	T4	- 35 ... + 60 °C
			T6	- 35 ... + 40 °C
	IIB + H ₂	Europe	T4	- 20 ... + 60 °C
			T6	- 20 ... + 40 °C
	IIB	USA	T4	- 35 ... + 66 °C
IIB + H ₂	USA	T4	- 25 ... + 66 °C	

Mechanical data

Material	
Enclosure	aluminium, seawater resistant
Horn	ABS, flame retardant
Fixings	stainless steel
Mounting bracket	mild steel with black polyester powder coat finish; supplied as standard
Product label	metalised polyester UL certified variants supplied with stainless steel label
Degree of protection	IP66 – IEC 60529 NEMA 4X – UL 50
Cable entries	2 cable entries, equipped with stopping plug (1x) and dust cap (1x) UL devices: equipped with M20 / 1/2 " adaptors (2x)

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Selection Table

Version	Group	Rated operational voltage	Order number	Art. no.	Weight kg
YA60 Sounder, ATEX certification, standard devices	IIB + H ₂	24 V DC	YA60/C/D/EU	205191	5.400
		115 V AC	YA60/C/L/EU	205199	5.400
		230 V AC	YA60/C/N/EU	205200	5.400
YA60 Sounder, UL certification, standard devices	B, C, D	24 V DC	YA60/B/D/UL	205202	5.400
		115 V AC	YA60/B/L/UL	205204	5.400
		230 V AC	YA60/B/N/UL	207054	5.400
YA60 Sounder, IECEX certification, standard devices	IIB + H ₂	24 V DC	YA60/C/D/IN	205197	5.400
		115 V AC	YA60/C/L/IN	212393	5.400
		230 V AC	YA60/C/N/IN	212394	5.400
YA60 Sounder, GOST R certification, standard devices	IIB + H ₂	24 V DC	YA60/C/D/RU	205198	5.400
		115 V AC	YA60/C/L/RU	212395	5.400
		230 V AC	YA60/C/N/RU	212396	5.400

Note Variations in gas group, flash energy, voltage and lens colour are available, please use the Selection Table

Selection Table




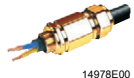
Version	Variations		Order Number
YA60 Sounder, devices acc. to specification	Type code: please fill in fields		YA60 / _ / _ / _ / _
Gas group			
	EU, IN and RU units	IIB	B
		IIB + H ₂	C
	UL units	C, D gas groups	C
		B gas groups	B
Rated Operational Voltage			
		24 V DC	D
		48 V DC	F
		115 V AC	L
		230 V AC	N
Certification			
		ATEX	EU
		UL	UL
		IECEX	IN
		GOST-R	RU
Additions			
	activation	telephone initiate	TI
		additional approvals	L

Note Duty + tag labels are available on request. Please contact your local sales office for more details.

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Accessories and Spare Parts

Designation	Figure	Description	Group	Order number	Art. no.	WebCode
Cable gland		Compound Barrier Cable Glands Ex d and Ex e for all Types of Unarmoured Cables	IIB + H ₂ and IIC	8163/2-20- PXSS2K-M20	138888	8163J
		Compound Barrier Cable Glands Ex d and Ex e for all Types of Armoured Cables	IIB + H ₂ and IIC	8163/2-20- PX2K-M20	138875	8163I
		Cable Glands Ex d and Ex e for Unarmoured Cables	IIB	8163/2-20- A2F-M20	138772	8163A
		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.

Accessories and Spare Parts

Designation	Figure	Description	Art. no.
Mounting bracket		stainless steel bracket fixing kit accessories	210794
Replacement PCB assembly		24 V DC	222969
		115 ... 230 V AC	209515

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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.