

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



- > 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
- > Lens guard and mounting bracket supplied as standard
- > Telephone initiate option available



14718E00

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

ATEX						Class I (NEC 505) (NEC 506)						Class I Class II Class III								
Zone	0	1	2	20	21	22	Zone	0	1	2	20	21	22	Division	1	2	1	2	1	2
For use in		x	x		x	x	For use in		x	x		x	x	For use in	x	x	x	x	x	x

Explosion Protection

Marking

IECEX Gas explosion protection	IIB version:	Ex d IIB T4 (Ta -35°C to +60°C)
	IIB+H ₂ version:	Ex d IIB+H ₂ T4 (Ta -20°C to +60°C)
Dust explosion protection	IIB version:	Ex tD A21 IP66 T135°C (Ta -35°C to +60°C)
	IIB+H ₂ version:	Ex tD A21 IP66 T135°C (Ta -35°C to +60°C)
Europe (ATEX) Europe (ATEX)	IIB version:	⊕ II 2 GD Ex d IIB T4 (T6 on request)
	IIB+H ₂ version:	⊕ II 2 GD Ex d IIB+H ₂ T4 (T6 on request)

Certificates

IECEX	IIB version:	IECEX BAS 05.0086 X
	IIB+H ₂ version:	IECEX BAS 05.0087X
Europe (ATEX)	IIB version:	Baseefa 02ATEX0212X
	IIB+H ₂ version:	Baseefa 02ATEX0222X
Other approvals	Canada (CUL), Russia (GOST-R), USA (UL), Brazil (INMETRO)	

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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	IIB + H ₂	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 and voltage are available, please use the table below to order

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 AC voltages only	telephone initiate	TI

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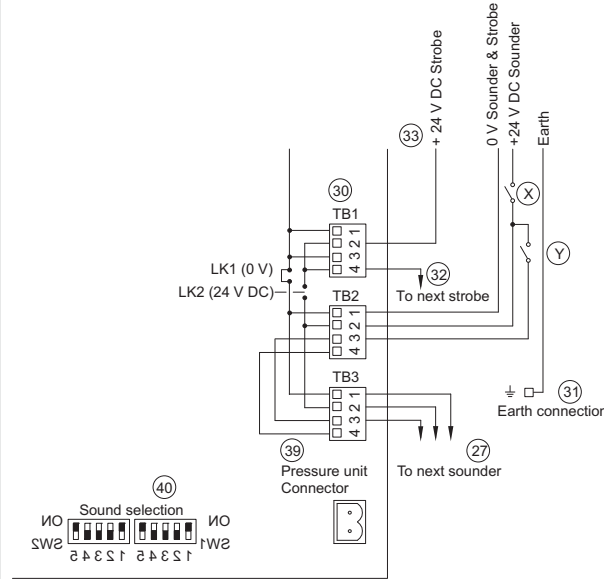
Technical Data

Electrical data

Rated operational voltage	24 V DC, 115 or 230 V AC	
Current consumption	24 V DC	IECEX, ATEX, UL, GOST 350 mA
	115 V AC	IECEX, ATEX, UL, GOST 110 mA
	230 V AC	IECEX, ATEX, UL, GOST 55 mA

Schematic

Standard DC alarm connection and sound signal selection



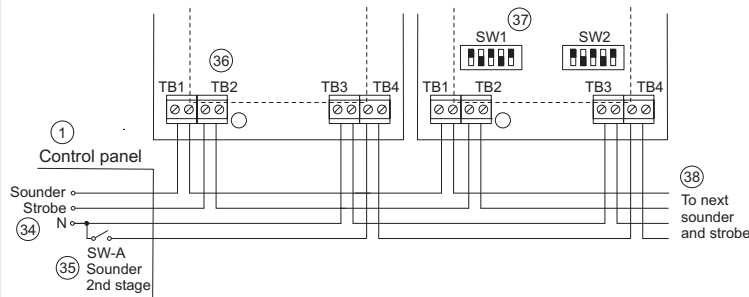
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NOTE:

Two stage alarm by third core.
Strobe shown with common 0 V.
Line monitoring by reversal.
Select alarm stage 1 on SW1.
Select alarm stage 2 on SW2.

The two stage control always operates as follows:
The first stage sounds by supplying volts to a unit via control switch 'X'. This switch remains on and the second stage signal is controlled by switching volts to the third terminal via switch 'Y'.

AC alarm connection and sound signal selection



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Legend

- 1 = External power supply, provided by user
- 27 = Connections to additional sounder/horn
- 30 = Terminal blocks for incoming and outgoing wiring
- 31 = Internal earth terminal
- 32 = Connections to additional strobe/beacon
- 33 = Control voltage for strobe/beacon (connection to TB1), common voltage for both strobe/beacon and sounder/horn (connection to TB2), control voltage for sounder/horn (connection to TB2)
- 34 = Live voltage for sounder/horn (connection to TB1), live voltage for strobe/beacon (connection to TB2), common neutral for both strobe/beacon and sounder/horn (connection to TB3)
- 35 = Switch for second stage alarm
- 36 = Terminal blocks for incoming and outgoing wiring
- 37 = Dual in line sound selection switches, situated on reverse
- 38 = Connections to additional sounder/horn and strobe beacon
- 39 = Connecting socket used for pressure unit, situated on reverse of the PCB
- 40 = Dual in line sound selection switches, situated on reverse of PCB