

# Industrial Audible Signal - 116 dB (A)

## Series YA80



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- > Max sound output 116 db (A) / 1 m
- > IP65 rated as standard
- > 32 selectable tones meeting international regulations
- > Flame retardant ABS enclosure
- > Stainless steel fixings
- > 2 stage alarm
- > Multi stage unit with up to 8 individually selectable stages is available
- > Complies with BS 5839
- > Low current consumption
- > Robust, reliable and simple to install



14593E00

**Yodalarm range**  
High output multi-purpose audible signalling device designed for use in industrial applications.

### Approvals

Certificates	
	UL 464
	C22.2 No. 205-M1983, CAN/ULC-5526-M87
	BS EN 54-3 : 2001 incorporates amendment A 1 : 2002
	BS EN 54-3 : 2001 incorporates amendment A 1 : 2002
KM 91259 Multi stage units do not carry these approvals. They are designed in accordance with BS EN54-3	

**WebCode YA80A**

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### Selection Table

Version	Enclosure colour	Rated operational voltage	Order number	Art. no.	Weight
YA80 Sounder, standard devices	red flame (RF)	24 V DC	<b>YA80/D/RF/WR</b>	<b>204407</b>	2.900
		115 V AC	<b>YA80/L/RF/WR</b>	<b>204422</b>	3.280
		230 V AC	<b>YA80/N/RF/WR</b>	<b>204436</b>	3.280
YA80 Sounder, UL certification	red flame (RF)	24 V DC	<b>YA80/D/RF/UL</b>	<b>204441</b>	2.900
		115 V AC	<b>YA80/L/RF/UL</b>	<b>204443</b>	3.280
		230 V AC	<b>YA80/N/RF/UL</b>	<b>204444</b>	3.280
YA80 Multi stage unit	red flame (RF)	24 V DC	<b>YA80/D/RF/WR/MS</b>	<b>212363</b>	2.500
		115 V AC	<b>YA80/L/RF/WR/MS</b>	<b>212364</b>	2.500
		230 V AC	<b>YA80/N/RF/WR/MS</b>	<b>204439</b>	2.500

Note Other voltages and variants are available. Please contact your local sales office for more details

### Technical Data

#### Electrical data

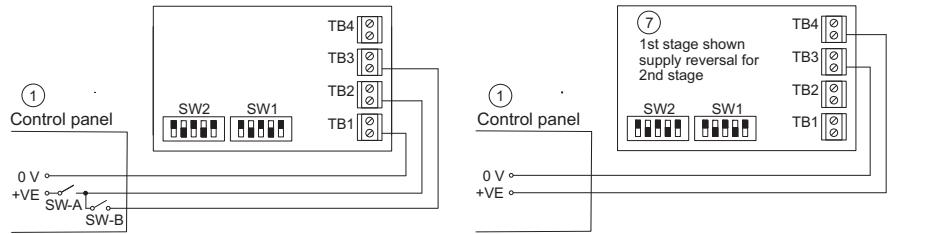
Rated operational voltage	12, 24 or 48 V DC 115 or 230 V AC $\pm 10\%$ 12 and 48 V DC not available on UL listed products 12 V DC versions will produce approx 6 dB less output <b>multi stage unit:</b> 24 V DC $\pm 10\%$
Current consumption	min. 300 mA
Line monitoring	3 wire, 2 stage or 2 wire, single stage: monitor via reverse polarity 2 wire, 2 stage i.e. bi-polar inputs: monitor via threshold (applied voltage < 1 V) <b>multi stage unit:</b> 2 wire polarised, single stage: monitor via reverse polarity

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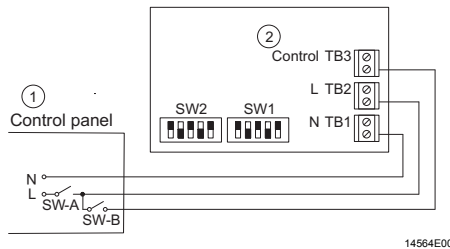
## Technical Data

### Schematic



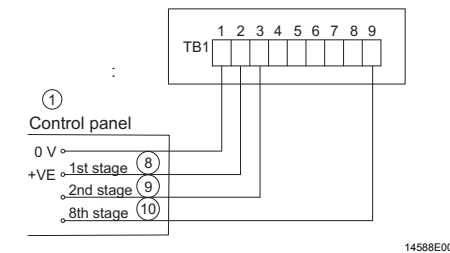
DC input: 2nd stage with third wire

DC input: 2nd stage by supply reversal



AC input

### Multi stage unit:



for all stages connect 0 V to terminal 1, for 1st stage connect +VE to terminal 2, for 2nd stage connect +VE to terminal 3, etc., up to 8th stage with +VE connected to terminal 9  
 Note: only appropriate 2 wires are required to be connected for each stage.  
 for AC units 0 V = NEUTRAL and +VE = LIVE.  
 for sound selection all stages have independently selectable 5 way DIL switches.  
 SW1 = stage 1, SW2 = stage 2, etc.

### Legend

- 1 = External power supply, provided by user
- 2 = TB3 used for 2nd stage only
- 7 = Connection for first stage only. Reverse voltage for 2nd stage
- 8 = Supply voltage for independent first stage
- 9 = Supply voltage for independent second stage
- 10 = Supply voltage for independent eighth stage

### Acoustic data

Volume	116 db (A) / 1 m
Sound selection	via DIL switch Independently selectable 2nd stage via polarised or 2 wire bi-polar connection. (not for multi stage unit)

### Ambient conditions

Operating temperature range	- 25 ... + 55 °C
Storage temperature	- 40 ... + 70 °C
Max. relative humidity	90 % at 40 °C <b>multi stage unit:</b> 95 % at 40 °C

### Mechanical data

Material	
Enclosure	ABS, flame retardant
Assembly parts	stainless steel fixings
Degree of protection	IP 65 standard on all units

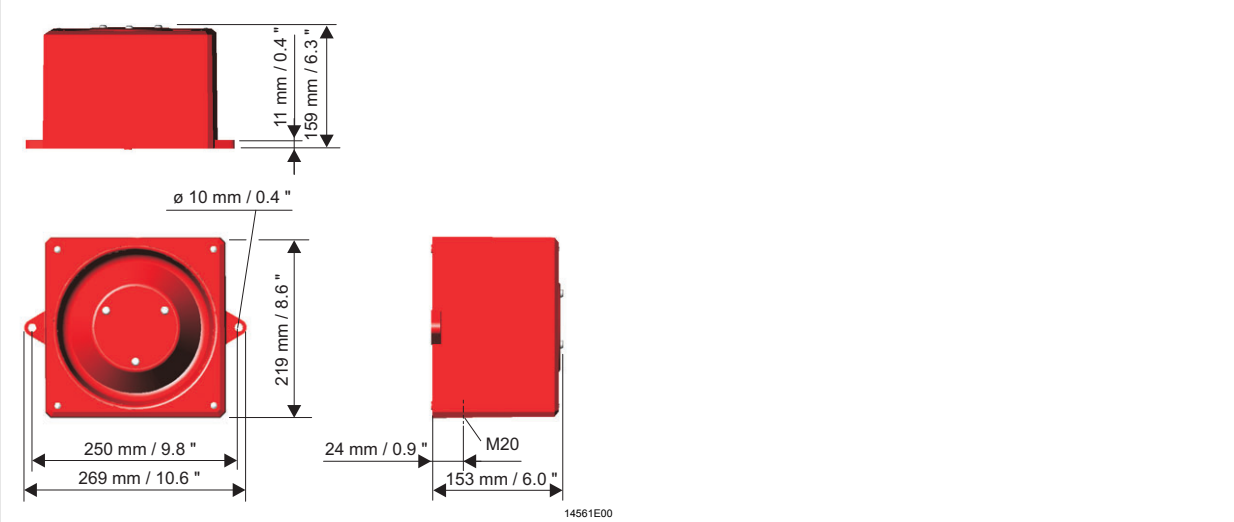
### Assembly / Installation

Assembly	Should be mounted to a reasonably flat wall or bulkhead of suitable material using the lugs projecting from the side of the case. The lugs are bored 10 mm on 250 mm centres. The minimum recommended length of fixing screws is 30 mm. To maintain the integrity of the weather seal, the cable entry must be fitted using a suitable sealed gland.
Connection	separate input and output terminals

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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.