



Clifford & Snell®



# Yodalight® YL80 Super

Multi-Purpose Audible & Visual Signalling Device designed for use in Fire, Industrial & Marine applications with High Ambient Background Noise



## PRODUCT FEATURES

- Max sound output 120 dB(A) @ 1m
- IP66 rated as standard
- Beacon options include:
  - High Brightness LED
  - 5 Joule Xenon
- 32 selectable tones meeting international regulations
- Flame retardant ABS enclosure
- Stainless steel fixings
- 2 stage alarm
- Independently selectable second stage option
- Lens available in eight colours

## Product Approvals



Marine Equipment Directive MED  
Regulations EN 54-3:2014 incl. A1:2019  
IEC 60092-504:2016 IEC 60533:2015  
Module B (BSI/MED/3.53/756093)  
Module D (BSI/MED/PC/756095)



BS EN 54-3 : 2001 + A1:2002 + A2:2006  
Type B  
0086-CPR-774029



Merchant Shipping (Marine Equipment)  
Regulations EN 54-3:2014 incl. A1:2019,  
IEC 60092-504:2016, IEC 60533:2015  
Module B (BSI/UK/3.53/738807)  
Module D (BSI/UK/PC/738808)



BS EN 54-3 : 2001 + A1:2002 + A2:2006  
Type B  
KM 713890



EN 54-3 : 2001 + A1:2002 + A2:2006  
Type B  
2797-CPR-713892



Compliant

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Issue 5

# TECHNICAL DATA

Electrical Data		
Operating Voltage	Current Draw	
	LED	Xenon
24vDC ---	565mA at Tone 1	810mA
48vDC ---	344mA	455mA
115vAC ~	232mA	300mA
230vAC ~	148mA	205mA

Ambient Conditions	
Operating Temperatures	
Standard General	-35 °C to +70 °C
EN54 Pt:3 Fire	-25 °C to +55 °C
Storage Temperature	-40 °C to +70 °C
Max. Relative Humidity	93% ± 3 at 40 °C

**Mounting / Installation**

Devices should be mounted to a suitable flat wall or bulkhead avoiding any undue vibration and using the two lugs projecting from the case. The lugs are bored 10mm on 250mm centres. The minimum length of fixing screw required is 30mm. To maintain the IP rating of the enclosure, the cable entries must be fitted with a suitably rated cable gland (included). Max cable termination 2.5mm<sup>2</sup>.

Mechanical data	
Enclosure Material	ABS FR UL94 5VB
Lens Material	PC FR UV Stable UL94 HB
External Fixings	Stainless Steel
Degree of Protection	IP66 (IEC60529)

Acoustic data	
Maximum Volume Output	120dB (A)
2 Stage Alarm with Independently Selectable tones via DIL Switch	

Luminous Characteristics		
Array Type	Voltage	Power/Output Type
LED	24vDC --- (**)	25 High Brightness LEDs
	48vDC --- (**)	25 High Brightness LEDs
	115vAC ~ (**)	25 High Brightness LEDs
	230vAC ~ (**)	25 High Brightness LEDs
Xenon	24vDC --- (*)	5 Joule Output
	48vDC --- (*)	5 Joule Output
	115vAC ~ (*)	5 Joule Output
	230vAC ~ (*)	5 Joule Output
Flash Rate	(*) 60 FPM, (**) 60/120 FPM User Selectable	

### Line Integrity on DC Systems

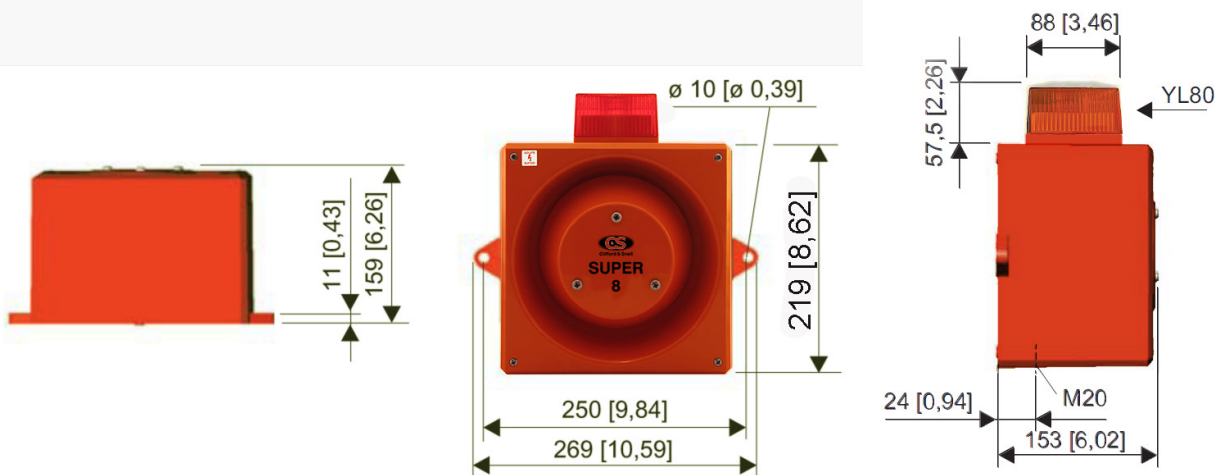
- For 3 wire 2 stage alarm system, monitor via reverse polarity.
- For 2 wire 2 stage alarm system, monitor via threshold, (applied voltage < 1v) an end-of-line (E.O.L) resistor is required for line monitoring and should have a minimum resistance of 3k3 Ohms and 0.5 Watts, wire-wound or metal film type.

### Multi-Stage Alarm

The YL80 units are supplied with a 2 Stage Alarm option with Independently Selectable tones (see tone table on the installation sheet for details) across all voltage options as standard.

### Dimensional Drawing

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. All Dimensions in mm [inches] - Subject to alterations



## SELECTION

Version	Enclosure Colour	Rated Operational Voltage	Lens Colour	Effective Candela (cd)	Order Number	Art. No.	Weight (kg)
YL80 Super Sounder/LED combination BS EN 54-3 UKCA, CE, EU MED & UK MER	Red Flame (RF) RAL 2002	24vDC ---	Amber	62.31	YL80/DL/A/RF/SU/WR	245722	3.210
			Red	55.12	YL80/DL/R/RF/SU/WR	245723	3.210
			Green	69.23	YL80/DL/G/RF/SU/WR	245724	3.210
			Opal	33	YL80/DL/O/RF/SU/WR	245725	3.210
			Blue	10.27	YL80/DL/B/RF/SU/WR	245726	3.210
			Clear	78.97	YL80/DL/C/RF/SU/WR	245727	3.210
			Yellow	66.83	YL80/DL/Y/RF/SU/WR	245728	3.210
			Magenta	19.12	YL80/DL/M/RF/SU/WR	245729	3.210
		48vDC ---	Amber	62.31	YL80/FL/A/RF/SU/WR	245730	3.210
			Red	55.12	YL80/FL/R/RF/SU/WR	245731	3.210
			Green	69.23	YL80/FL/G/RF/SU/WR	245732	3.210
			Opal	33	YL80/FL/O/RF/SU/WR	245733	3.210
			Blue	10.27	YL80/FL/B/RF/SU/WR	245734	3.210
			Clear	78.97	YL80/FL/C/RF/SU/WR	245735	3.210
			Yellow	66.83	YL80/FL/Y/RF/SU/WR	245736	3.210
			Magenta	19.12	YL80/FL/M/RF/SU/WR	245737	3.210
		115vAC ~	Amber	62.31	YL80/LL/A/RF/SU/WR	245738	3.580
			Red	55.12	YL80/LL/R/RF/SU/WR	245739	3.580
			Green	69.23	YL80/LL/G/RF/SU/WR	245740	3.580
			Opal	33	YL80/LL/O/RF/SU/WR	245741	3.580
			Blue	10.27	YL80/LL/B/RF/SU/WR	245742	3.580
			Clear	78.97	YL80/LL/C/RF/SU/WR	245743	3.580
			Yellow	66.83	YL80/LL/Y/RF/SU/WR	245744	3.580
			Magenta	19.12	YL80/LL/M/RF/SU/WR	245745	3.580
		230vAC ~	Amber	62.31	YL80/NL/A/RF/SU/WR	245746	3.580
			Red	55.12	YL80/NL/R/RF/SU/WR	245747	3.580
			Green	69.23	YL80/NL/G/RF/SU/WR	245748	3.580
			Opal	33	YL80/NL/O/RF/SU/WR	245749	3.580
			Blue	10.27	YL80/NL/B/RF/SU/WR	245750	3.580
			Clear	78.97	YL80/NL/C/RF/SU/WR	245751	3.580
			Yellow	66.83	YL80/NL/Y/RF/SU/WR	245752	3.580
			Magenta	19.12	YL80/NL/M/RF/SU/WR	245753	3.580

# SELECTION

Version	Enclosure Colour	Flash Energy	Rated Operational Voltage	Lens Colour	Effective Candela (cd)	Order Number	Art. No.	Weight (kg)
YL80 Super Sounder/Xenon combination BS EN 54-3 UKCA, CE, EU MED & UK MER	Red Flame (RF) RAL 2002	5 J	24vDC ---	Amber	25.52	YL80/D50/A/RF/SU/WR	204675	3.210
				Red	8.92	YL80/D50/R/RF/SU/WR	204695	3.210
				Green	29.70	YL80/D50/G/RF/SU/WR	212083	3.210
				Opal	65.78	YL80/D50/O/RF/SU/WR	212084	3.210
				Blue	14.09	YL80/D50/B/RF/SU/WR	210182	3.210
				Clear	72.10	YL80/D50/C/RF/SU/WR	212085	3.210
			48vDC ---	Amber	25.52	YL80/F50/A/RF/SU/WR	243170	3.210
				Red	8.92	YL80/F50/R/RF/SU/WR	214043	3.210
				Green	29.70	YL80/F50/G/RF/SU/WR	245584	3.210
				Opal	65.78	YL80/F50/O/RF/SU/WR	245585	3.210
				Blue	14.09	YL80/F50/B/RF/SU/WR	245586	3.210
				Clear	72.10	YL80/F50/C/RF/SU/WR	245587	3.210
			115vAC ~	Amber	25.52	YL80/L50/A/RF/SU/WR	212086	3.580
				Red	8.92	YL80/L50/R/RF/SU/WR	211033	3.580
				Green	29.70	YL80/L50/G/RF/SU/WR	212087	3.580
				Opal	65.78	YL80/L50/O/RF/SU/WR	212088	3.580
				Blue	14.09	YL80/L50/B/RF/SU/WR	212089	3.580
				Clear	72.10	YL80/L50/C/RF/SU/WR	212090	3.580
			230vAC ~	Amber	25.52	YL80/N50/A/RF/SU/WR	204717	3.580
				Red	8.92	YL80/N50/R/RF/SU/WR	204735	3.580
				Green	29.70	YL80/N50/G/RF/SU/WR	212091	3.580
				Opal	65.78	YL80/N50/O/RF/SU/WR	212092	3.580
				Blue	14.09	YL80/N50/B/RF/SU/WR	205458	3.580
				Clear	72.10	YL80/N50/C/RF/SU/WR	212365	3.580
Purple (Magenta) & Yellow Beacon Lenses available upon request.								