



Clifford & Snell

INSTALLATION & TECHNICAL INFORMATION

PLEASE READ PRIOR TO INSTALLATION



Y03 Yodalarm Series
(Incorporating the YA30 Range)

AUDIBLE SIGNALLING DEVICE

S00622 Issue 2

APPROVALS AND CONFORMITIES



KM 713890



738807



2797-CPR-713892



RoHS



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Installation

- Installation must be carried out in accordance with the latest codes of practice by a qualified electrician.
- Check that the power supply is correct for the voltage rating of the alarm to be installed.
- Ensure that the power supply is disconnected prior to installation or maintenance to avoid electrical shock.
- The unit should be mounted to a wall or bulkhead formed of suitable material using the two mounting lugs projecting from the side of the enclosure.
- The lugs have an 6mm diameter mounting hole & sit on 102mm centres. The minimum recommended length of fixing screw is 25mm (not supplied).
- Avoid mounting the alarm where it could be subjected to excessive vibration levels.

Ingress Protection

To maintain the IP rating of the product the below points must be observed.

- An IP66 cable gland is supplied with the product. This gland (or other suitably rated) must be used.
- When replacing the front cover, each of the four retaining screws **must** be torqued to 0.6Nm $\pm$ 0.1Nm.

Sound Selection:

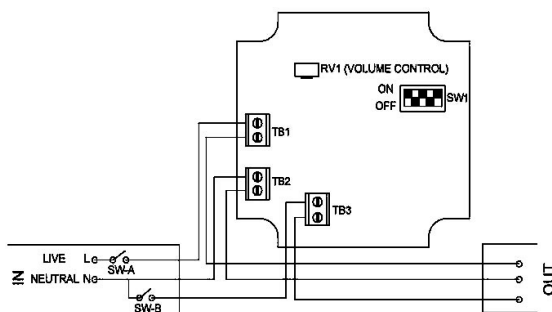
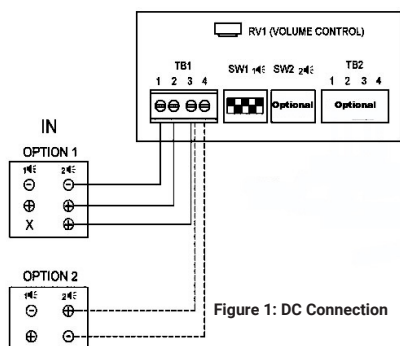
- Ensure the supply is **OFF** before proceeding.
- All DC units have selectable alarm sounds (see table on back of installation sheet for details) and are selectable via switch SW1.
- A second stage tone is made available via a third wire connected to terminal TB1/3 as shown in Figure. 1.
- Alternatively, the 1st and 2nd stage sound signals can be generated by supply reversal. See Fig. 1, Option 2.
- Manually selectable second stage tones are available for DC units by using switch SW2 if fitted (this option is only supplied upon request, and is not generally supplied as standard).

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.

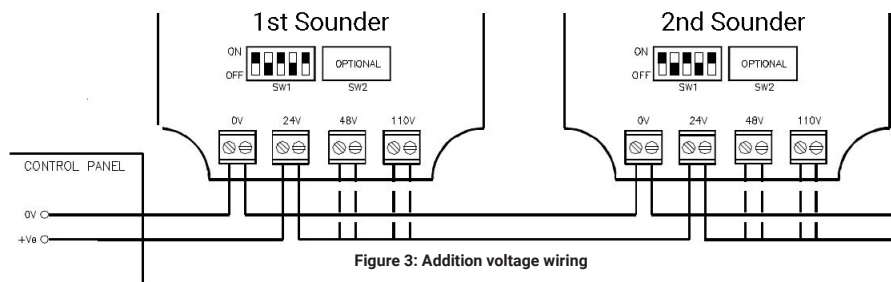
AC Systems

- As with the DC units, the AC units have a selectable tone via the SW1 DIP switch, see Figure 2.
- A second stage can be activated by applying an additional “N” connection to the TB3 terminal on the PCB, as shown in Figure 2. In this instance SW-B is used to indicate this stage being activated.



Additional Voltage Options

- The Clifford and Snell YO3 series is available in a wide variety of voltage ranges, these include:
 - 24vAC Voltage code I
 - 24/50vDC Voltage code BT
 - 48vDC Voltage code F
 - 110vDC Voltage code H
- Wiring example is shown in Figure 3. The units are designed for loop-in, loop-out connectivity allowing 2 terminals per connection.
- Always confirm correct voltage is applied to relevant terminals.



Features Include:

- Termination: Upto 2.5mm² cable
- Operating Temperature: Standard Variants -25°C to +70°C
EN54-3 Approved -25°C to +55°C
- Enclosure Material: Fire Resistant & UV Stable UL94-5VB rated ABS
- Ingress Protection: Weatherproof to IP66
- Sound Pressure Level: 105dB(A) Max.
- Volume Control Adjustment: -18dB
- AC Supply: 50/60 Hz

Tone Table

Tone	Description	Frequency	Rept.	Second Stage	Switches					Special Application	dB(A) @ 1m (± 3dB)
		(Hz)	rate		1	2	3	4	5		
1*	Alternating	800-1000	0.5	3	I	I	I	I	I	Fire Alarms	105
2	Alternating	2500-3100	0.5	4	O	I	I	I	I	Security Alarms	105
3	Alternating (fast)	800-1000	0.25	7	I	O	I	I	I	Increased urgency	104
4	Alternating (fast)	2500-3100	0.25	8	O	O	I	I	I	Security deterrent	105
5*	Alternating	440-554	0.4/0.1	14	I	I	O	I	I	AFNOR, France (NFS 32001)	102
6	Alternating	430-470	1	14	O	I	O	I	I		102
7	Alternating (v.fast)	800-1000	0.13	12	I	O	O	I	I		105
8	Alternating (v.fast)	2500-3200	0.07	13	O	O	O	I	I		105
9	Alternating	440-554	2	10	I	I	I	O	I	Turn-out, Sweden	102
10	Continuous note	700	-	1	O	I	I	O	I	All-clear, Sweden	104
11*	Continuous note	1000	-	31	I	O	I	O	I		102
12	Continuous note	1000	-	7	O	O	I	O	I		102
13	Continuous note	2300	-	2	I	I	O	O	I		105
14	Continuous note	440	-	9	O	I	O	O	I		102
15*	Interrupted tone	1000	2	31	I	O	O	O	I		100
16*	Interrupted tone	420	1.25	30	O	O	O	O	I	AS2220, Australia	101
17	Interrupted tone	1000	0.5	1	I	I	I	I	O		101
18	Interrupted tone	2500	0.25	4	O	I	I	I	O		105
19	Interrupted tone	2500	0.5	2	I	O	I	I	O		105
20	Interrupted tone	700	6/12	10	O	O	I	I	O	Pre-vital mess, Sweden	103
21	Interrupted tone	1000	1	32	I	I	O	I	O		101
22	Interrupted tone	700	4	10	O	I	O	I	O	Air-raid, Sweden	103
23	Interrupted tone	700	0.25	10	I	O	O	I	O	Local warning, Sweden	101
24	Interrupted tone	720	0.7/0.3	10	O	O	O	I	O	Industrial alarm, Germany	103
25	Int,fast,rising volume	1400	0.25	26	I	I	I	O	O		105
26	Fast siren	250-1200	0.085	11	O	I	I	O	O		103
27	Rising constant, fall	1000	10/40/10	17	I	O	I	O	O	Industrial alarm, Germany	104
28*	ISO 8201 Evacuation	800-1000	as std	11	O	O	I	O	O	Int'l evacuation alarm	105
29	Fast whoop	500-1000	0.15	32	I	I	O	O	O		103
30*	Slow whoop	500-1200	4.5	12	O	I	O	O	O	Evacuation, The Netherlands	105
31*	Reverse sweep	1200-500	1	11	I	O	O	O	O	Evacuation, Germany	103
32	Siren	500-1200	3	26	O	O	O	O	O		103

Note: EN54-3 Compatible Tones are marked above with *.

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Additional resources, including installation sheet translations, certificates and DoCs are available from the www.moflash.co.uk website.

