Clifford & Snell

INSTALLATION & TECHNICAL INFORMATION

PLEASE READ PRIOR TO INSTALLATION

For YL80 Super Hi-Vis Translations and Documentation scan above.

For YA80 Super Translations and Documentation scan above.

For YL80 Super Translations and Documentation scan above.

YO8 Super Yodalarm & Yodalight Series
(Incorporating YA80 Super and YL80 Super)

AUDIBLE AND/OR VISUAL SIGNALLING DEVICES

S00626 Issue 5

APPROVALS AND CONFORMITIES

KM 713890

BSI/MED/3.53/756093   BSI/UK/3.53/738807   2797-CPR-713892   0086-CPR-774029

CE   UKCA   RoHS

www.moflash.com   **technical@moflash.co.uk**

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 10mm diameter mounting hole & sit on 250mm centres. The minimum recommended length of fixing screw is 30mm (not supplied).
- Avoid mounting the alarm where it could subjected to excessive vibration levels.
- All YA80S units require 2 additional ferrite beads (included in box) to be fitted on all input wires, 1 wire per hole. Failure to correctly install the ferrite beads will result in the unit not complying with the EN54-3 approval. (YL80S Ferrite Beads are factory installed).

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 ±0.1Nm

Sound selection

- Ensure the supply is **OFF** before proceeding.
- All DC and AC units have 2 selectable alarm stages (see table on back of installation sheet for details) and are set via switches SW1 & SW2.
- Figure 1 (DC) & Figure 3 (AC) show wiring to activate alarm stages 1 & 2.
- Figure 2 shows a second option for DC wiring. This allows for activating a stage 1 or a stage 2 alarm tone depending on the polarity of the connection.
- All stage 1 alarm tones have a predetermined stage 2 alarm (see back of installation sheet), this will only sound if SW1 & SW2 are configured to the same tone.

Line integrity for DC systems only

- For 3 wire 2 stage alarm system, monitor via reverse polarity across TB1 & TB2.
- 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 0.5watts, wire-wound or metal film type.
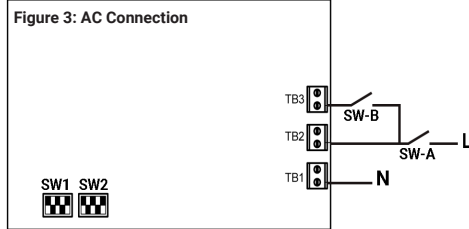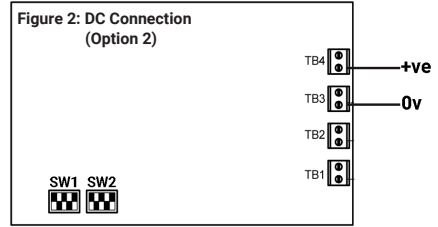
AC Systems

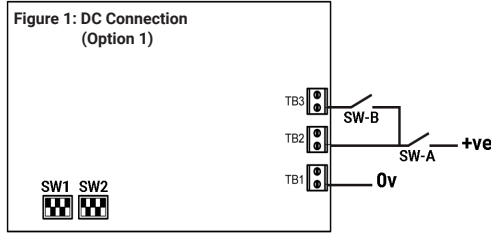- A second stage alarm tone can be activated by applying an additional "L" connection to the TB3 terminal on the PCB, as shown in Figure 3.

Additional Voltage Options

- The Clifford and Snell YO8 Super series is also available in a 48vDC (F) option.
- The wiring for this voltage is the same as the 24vDC units as shown in Figure 1.
- Always confirm correct voltage is applied to relevant terminals.

YA80 Super Wiring options

Figure 1: DC Connection (Option 1)

TB3
TB2 — SW-B
TB1 — SW-A — **+ve**
SW1 SW2 — **0v**

Figure 2: DC Connection (Option 2)

TB4 — **+ve**
TB3 — **0v**
TB2
TB1
SW1 SW2

Figure 3: AC Connection

TB3
TB2 — SW-B
TB1 — SW-A — **L**
SW1 SW2 — **N**

Figure 2 functionality

Polarity dependant for stage output. See table for connections

TB3	TB4	Output
0v	+v	Stage 1
+v	0v	Stage 2

### Figure 1 & 3 functionality

Close SW-A to activate stage 1 tone.
Close SW-A & SW-B to activate stage 2 tone.
SW-A & SW-B used as an example of customer external switching equipment.

YO8 Super Yodalarm/Yodalight Series

Consists of either the YA80 Super (Audible Unit only) or the YL80 Super (Combined Audible & Visual unit)

Connections for the YL80 Super units are made via a 6 way Terminal Block mounted in the base of the unit as shown in Figure 4 diagram below. Using connections shown, it is possible to independently control both Sounder and Beacon sections.

YL80 Super Wiring options
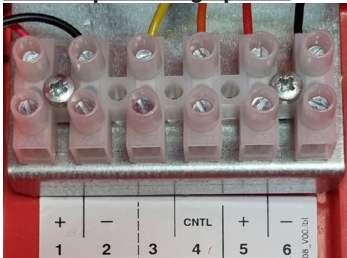
Figure 4:
Terminal block for YL unit connections

Terminal	AC Connections		DC Connections (Option 1)		DC Connections (Option 2)	
	Stage 1	Stage 2	Stage 1	Stage 2	Stage 1	Stage 2
6	N	N	0v	0v		
5	L	L	+ve	+ve		
4		L		+ve	+ve	0v
3					0v	+ve

Beacon Connections		
Terminal	AC	DC
1	L	+ve
2	N	0v

Features Include:
- Termination: Up to 2.5mm^2 cable
- Operating Temperature: Standard Variants -35°C to +70°C
  EN54-3 Approved -25°C to +55°C
- Enclosure Material: Fire Resistant & UV Stable UL94-5VB rated ABS
- Lens Material: Fire Resistant & UV Stable Polycarbonate
- Ingress Protection: Weatherproof to IP66
- Sound Pressure Level: 120dB(A) Max.
- AC Supply: 50/60 Hz

Tone Table

Tone	Description	Frequency (Hz)	Rept. rate	Second Stage	Switches 1	2	3	4	5	Special Application	dB(A) @ 1m (± 3dB)
1*	Alternating	800-1000	0.5	3	I	I	I	I	I	Fire Alarms	116
2	Alternating	2500-3100	0.5	4	O	I	I	I	I	Security Alarms	111
3	Alternating (fast)	800-1000	0.25	7	I	O	I	I	I	Increased urgency	117
4	Alternating (fast)	2500-3100	0.25	8	O	O	I	I	I	Security deterrent	111
5*	Alternating	440-554	0.4/0.1	14	I	I	O	I	I	AFNOR, France (NFS 32001)	109
6	Alternating	430-470	1	14	O	I	O	I	I		109
7	Alternating (v.fast)	800-1000	0.13	12	I	O	O	I	I		118
8	Alternating (v.fast)	2500-3200	0.07	13	O	O	O	I	I		111
9	Alternating	440-554	2	10	I	I	I	O	I	Turn-out, Sweden	111
10	Continuous note	700	-	1	O	I	I	O	I	All-clear, Sweden	112
11*	Continuous note	1000	-	31	I	O	I	O	I		118
12	Continuous note	1000	-	7	O	O	I	O	I		118
13	Continuous note	2300	-	2	I	I	O	O	I		113
14	Continuous note	440	-	9	O	I	O	O	I		107
15*	Interrupted tone	1000	2	31	I	O	O	O	I		118
16*	Interrupted tone	420	1.25	30	O	O	O	O	I	AS2220, Australia	108
17	Interrupted tone	1000	0.5	1	I	I	I	I	O		117
18	Interrupted tone	2500	0.25	4	O	I	I	I	O		113
19	Interrupted tone	2500	0.5	2	I	O	I	I	O		113
20	Interrupted tone	700	6/12	10	O	O	I	I	O	Pre-vital mess, Sweden	115
21	Interrupted tone	1000	1	32	I	I	O	I	O		118
22	Interrupted tone	700	4	10	O	I	O	I	O	Air-raid, Sweden	115
23	Interrupted tone	700	0.25	10	I	O	O	I	O	Local warning, Sweden	115
24	Interrupted tone	720	0.7/0.3	10	O	O	O	I	O	Industrial alarm, Germany	115
25	Int,fast,rising volume	1400	0.25	26	I	I	I	O	O		114
26	Fast siren	250-1200	0.085	11	O	I	I	O	O		116
27	Rising constant, fall	1000	10/40/10	17	I	O	I	O	O	Industrial alarm, Germany	120
28*	ISO 8201 Evacuation	800-1000	as std	11	O	O	I	O	O	Int'l evacuation alarm	118
29	Fast whoop	500-1000	0.15	32	I	I	O	O	O		116
30*	Slow whoop	500-1200	4.5	12	O	I	O	O	O	Evacuation, The Netherlands	120
31*	Reverse sweep	1200-500	1	11	I	O	O	O	O	Evacuation, Germany	118
32	Siren	500-1200	3	26	O	O	O	O	O		118

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

Moflash Signalling Limited accepts no liability for any consequences following use of this document. Any technical specifications and products referred to within this document are subject to change without notice due to continual improvement and product development policies. All dB(A) figures are subject to environmental conditions. The units are sold under Moflash standard conditions of sale, available on request.

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