Clifford & Snell

INSTALLATION & TECHNICAL INFORMATION

PLEASE READ PRIOR TO INSTALLATION

FD/SD40 Yodac Series

(Flashing or Static LED Indicators)

VISUAL SIGNALLING DEVICE

S00630 Issue 2

APPROVALS AND CONFORMITIES

KM 713890

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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 Beacon to be installed.
- Ensure that the power supply is disconnected prior to installation or maintenance to avoid electrical shock.
- The back box must be mounted with the two cable entry holes at the top or bottom.
- Cable entries points (M20) are provided on all sides and in the base.
- The back box should be mounted to a wall, bulkhead or conduit box formed of suitable material using the back box and gasket supplied. See Figure 1 for mounting holes.
- Avoid mounting the Beacon where it could subjected to excessive vibration levels.
- It is not necessary to earth the alarm circuitry, but earth tags should be used if earth continuity of conduit or cable sheathing is to be maintained

Ingress Protection

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

- A suitable rated (Minimum IP65) cable gland (not supplied) must be used.
- When replacing the front cover, each of the two retaining screws must be torqued to 0.6Nm ±0.1Nm

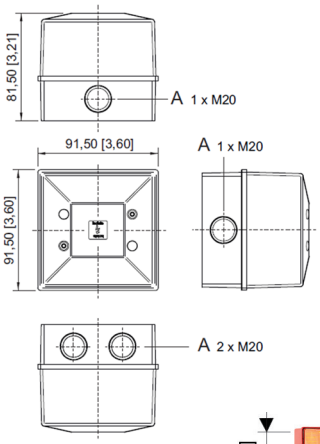
Electrical Connections

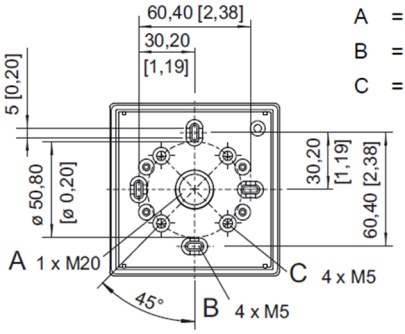
- These devices are purchased as modular assembly kits & by combining various coloured Beacon heads, (either Flashing (FD) or Static Type (SD)). They offer great Visual Status flexibility.
- The modular assembly allows for the addition of a YA40 Acoustic Signal if required.
- The SD40 units will require external input signals or PLC control to switch between visual functions (not supplied) from pre-set static mode to flashing or to activate the YA40 audible unit.
- For independant operation each Beacon/Sounder unit will need its own power supply, this can be done with either a common 0v line and seperate +24v power lines, or each unit having its own 0v and +24v lines.
- Figure 2 below shows the 4 way terminal block configuration allowing 2x positive input/output terminals and 2x 0v(-) terminals for the beacon.
- Figure 3 below shows the optional sounder PCB with the 0v and +Ve connections, along with the DIP switch for tone selection.
  See Tone Table (page 4).

Line Integrity on DC Systems

- 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.

Dimensional Drawing





A = knockout hole
B = drill hole
C = knockout hole

Figure 1

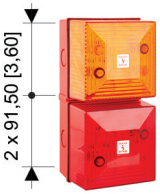


Figure 2

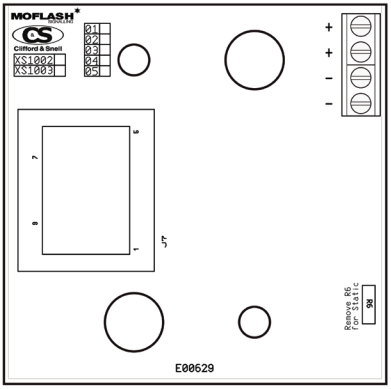
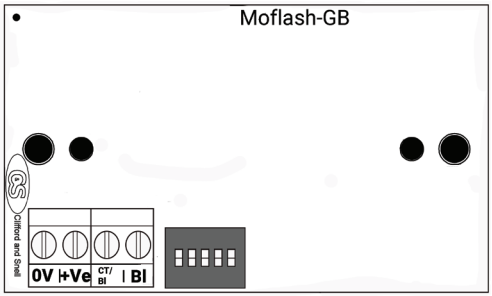


Figure 3



Features include:

- Termination: Upto 2.5mm² cable
- Flash Rate: 60 Flashes Per Minute (1Hz) (FD units only)
- Operating Temperature: -25°C to +70°C
- Enclosure Material: Fire Resistant UL94-5VB rated ABS
- Lens Material: Fire Resistant Polycarbonate
- Ingress Protection: Weatherproof to IP65
- Sound Pressure Level: 108dB(A) Max. (Sounder only)
- Volume Control Adjustment: -18dB (Sounder only)

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	108
2	Alternating	2500-3100	0.5	4	O	I	I	I	I	Security Alarms	108
3	Alternating (fast)	800-1000	0.25	7	I	O	I	I	I	Increased urgency	108
4	Alternating (fast)	2500-3100	0.25	8	O	O	I	I	I	Security deterrent	108
5*	Alternating	440-554	0.4/0.1	14	I	I	O	I	I	AFNOR, France (NFS 32001)	108
6	Alternating	430-470	1	14	O	I	O	I	I		105
7	Alternating (v.fast)	800-1000	0.13	12	I	O	O	I	I		108
8	Alternating (v.fast)	2500-3200	0.07	13	O	O	O	I	I		107
9	Alternating	440-554	2	10	I	I	I	O	I	Turn-out, Sweden	105
10	Continuous note	700	-	1	O	I	I	O	I	All-clear, Sweden	107
11*	Continuous note	1000	-	31	I	O	I	O	I		108
12	Continuous note	1000	-	7	O	O	I	O	I		108
13	Continuous note	2300	-	2	I	I	O	O	I		108
14	Continuous note	440	-	9	O	I	O	O	I		104
15*	Interrupted tone	1000	2	31	I	O	O	O	I		108
16*	Interrupted tone	420	1.25	30	O	O	O	O	I	AS2220, Australia	105
17	Interrupted tone	1000	0.5	1	I	I	I	I	O		108
18	Interrupted tone	2500	0.25	4	O	I	I	I	O		106
19	Interrupted tone	2500	0.5	2	I	O	I	I	O		106
20	Interrupted tone	700	6/12	10	O	O	I	I	O	Pre-vital mess, Sweden	105
21	Interrupted tone	1000	1	32	I	I	O	I	O		108
22	Interrupted tone	700	4	10	O	I	O	I	O	Air-raid, Sweden	104
23	Interrupted tone	700	0.25	10	I	O	O	I	O	Local warning, Sweden	103
24	Interrupted tone	720	0.7/0.3	10	O	O	O	I	O	Industrial alarm, Germany	104
25	Int,fast,rising volume	1400	0.25	26	I	I	I	O	O		108
26	Fast siren	250-1200	0.085	11	O	I	I	O	O		106
27	Rising constant, fall	1000	10/40/10	17	I	O	I	O	O	Industrial alarm, Germany	108
28*	ISO 8201 Evacuation	800-1000	as std	11	O	O	I	O	O	Int'l evacuation alarm	107
29	Fast whoop	500-1000	0.15	32	I	I	O	O	O		106
30*	Slow whoop	500-1200	4.5	12	O	I	O	O	O	Evacuation, The Netherlands	108
31*	Reverse sweep	1200-500	1	11	I	O	O	O	O	Evacuation, Germany	107
32	Siren	500-1200	3	26	O	O	O	O	O		107

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

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