



Clifford & Snell

INSTALLATION & TECHNICAL INFORMATION

PLEASE READ PRIOR TO INSTALLATION



For FD40 Translations and Documentation
scan above.



For SD40 Translations and Documentation
scan above.

FD/SD40 Yodac Series (Flashing or Static LED Indicators)

VISUAL SIGNALLING DEVICE

S00630 Issue 5

APPROVALS AND CONFORMITIES



2797-CPR-713892



KM 713890



0086-CPR-774029



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 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 be 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 $0.6\text{Nm} \pm 0.1\text{Nm}$

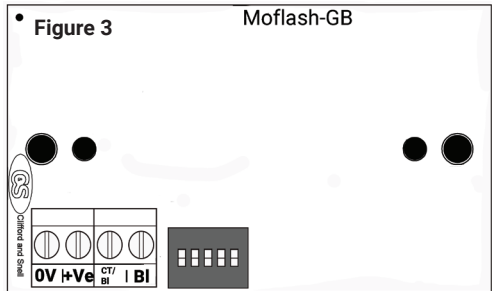
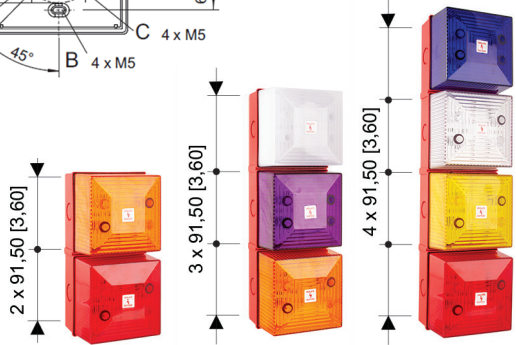
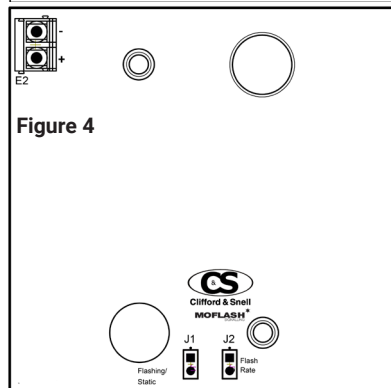
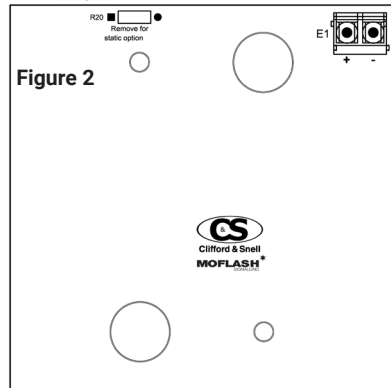
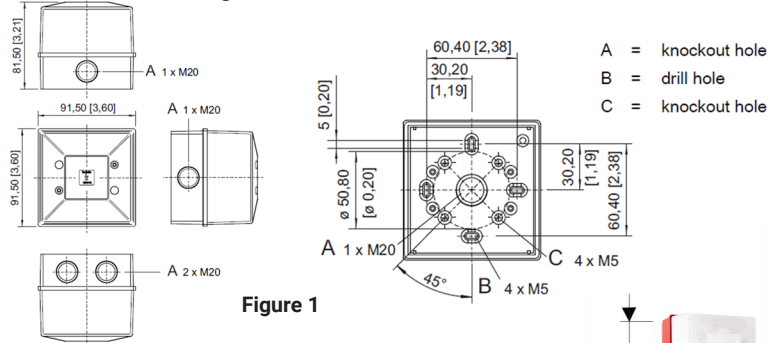
Electrical Connections

- 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.
- For independent operation each Beacon/Sounder unit will need its own power supply, this can be done with either a common 0v line and separate +24v power lines, or each unit having its own 0v and +24v lines.
- 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).
- On page 3, Figure 2 shows PCB for 24vDC beacons and Figure 4 shows PCB for high voltage (48v, 115v & 230v AC/DC) beacons.

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



Options for additional flash rate & static light option, see table for jumper positions. J2 flash rates only apply when J1 is fitted.

AC LED beacon will be factory set to 60 FPM as standard.

| Link | Link in | Link out |
|------|---------------|-------------|
| J1 | Flashing mode | Static Mode |
| J2 | 120 FPM | 60 FPM |

Features include:

- Termination: Upto 2.5mm² cable
- Flash Rate: 60 FPM (24vDC FD40) or 60/120 FPM (48v, 115v & 230v)
- 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 | 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 | 108 |
| 2 | Alternating | 2500-3100 | 0.5 | 4 | 0 | I | I | I | I | Security Alarms | 108 |
| 3 | Alternating (fast) | 800-1000 | 0.25 | 7 | I | 0 | I | I | I | Increased urgency | 108 |
| 4 | Alternating (fast) | 2500-3100 | 0.25 | 8 | 0 | 0 | I | I | I | Security deterrent | 108 |
| 5* | Alternating | 440-554 | 0.4/0.1 | 14 | I | I | 0 | I | I | AFNOR, France (NFS 32001) | 108 |
| 6 | Alternating | 430-470 | 1 | 14 | 0 | I | 0 | I | I | | 105 |
| 7 | Alternating (v.fast) | 800-1000 | 0.13 | 12 | I | 0 | 0 | I | I | | 108 |
| 8 | Alternating (v.fast) | 2500-3200 | 0.07 | 13 | 0 | 0 | 0 | I | I | | 107 |
| 9 | Alternating | 440-554 | 2 | 10 | I | I | I | 0 | I | Turn-out, Sweden | 105 |
| 10 | Continuous note | 700 | - | 1 | 0 | I | I | 0 | I | All-clear, Sweden | 107 |
| 11* | Continuous note | 1000 | - | 31 | I | 0 | I | 0 | I | | 108 |
| 12 | Continuous note | 1000 | - | 7 | 0 | 0 | I | 0 | I | | 108 |
| 13 | Continuous note | 2300 | - | 2 | I | I | 0 | 0 | I | | 108 |
| 14 | Continuous note | 440 | - | 9 | 0 | I | 0 | 0 | I | | 104 |
| 15* | Interrupted tone | 1000 | 2 | 31 | I | 0 | 0 | 0 | I | | 108 |
| 16* | Interrupted tone | 420 | 1.25 | 30 | 0 | 0 | 0 | 0 | I | AS2220, Australia | 105 |
| 17 | Interrupted tone | 1000 | 0.5 | 1 | I | I | I | I | 0 | | 108 |
| 18 | Interrupted tone | 2500 | 0.25 | 4 | 0 | I | I | I | 0 | | 106 |
| 19 | Interrupted tone | 2500 | 0.5 | 2 | I | 0 | I | I | 0 | | 106 |
| 20 | Interrupted tone | 700 | 6/12 | 10 | 0 | 0 | I | I | 0 | Pre-vital mess, Sweden | 105 |
| 21 | Interrupted tone | 1000 | 1 | 32 | I | I | 0 | I | 0 | | 108 |
| 22 | Interrupted tone | 700 | 4 | 10 | 0 | I | 0 | I | 0 | Air-raid, Sweden | 104 |
| 23 | Interrupted tone | 700 | 0.25 | 10 | I | 0 | 0 | I | 0 | Local warning, Sweden | 103 |
| 24 | Interrupted tone | 720 | 0.7/0.3 | 10 | 0 | 0 | 0 | I | 0 | Industrial alarm, Germany | 104 |
| 25 | Int,fast,rising volume | 1400 | 0.25 | 26 | I | I | I | 0 | 0 | | 108 |
| 26 | Fast siren | 250-1200 | 0.085 | 11 | 0 | I | I | 0 | 0 | | 106 |
| 27 | Rising constant, fall | 1000 | 10/40/10 | 17 | I | 0 | I | 0 | 0 | Industrial alarm, Germany | 108 |
| 28* | ISO 8201 Evacuation | 800-1000 | as std | 11 | 0 | 0 | I | 0 | 0 | Int'l evacuation alarm | 107 |
| 29 | Fast whoop | 500-1000 | 0.15 | 32 | I | I | 0 | 0 | 0 | | 106 |
| 30* | Slow whoop | 500-1200 | 4.5 | 12 | 0 | I | 0 | 0 | 0 | Evacuation, The Netherlands | 108 |
| 31* | Reverse sweep | 1200-500 | 1 | 11 | I | 0 | 0 | 0 | 0 | Evacuation, Germany | 107 |
| 32 | Siren | 500-1200 | 3 | 26 | 0 | 0 | 0 | 0 | 0 | | 107 |

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.