![Protec — Protec Fire Detection plc]

# 6000/LED High Intensity Flashing Beacon

- **Protec AlgoTec™ 6000 Protocol**

- **Loop Powered**

- **High Intensity LEDs**

- **Extremely Long Service Life**

- **Integral Short Circuit Isolator**

- **Ultra Low Current Consumption**

- **Weatherproof to IP65**

- **Choice of Colours**

The unique Protec 6000/LED utilises a high intensity flashing beacon array. This arrangement simplifies installation and considerably improves the aesthetic appearance compared to the more costly and cumbersome alternatives. The 6000/LED is the latest addition to the range of audio/visual devices offered by Protec.

The 6000/LED has 18 high intensity LEDs, and due to the low current design, is addressable and loop powered, utilising the Protec Algo-Tec™ 6000 Protocol. The flash rate is 1Hz. The 6000/LED incorporates a loop short circuit isolator to enhance the system integrity.

The 6000/LED is available in a choice of lens and backbox colours and has an IP65 rating making the product suitable for mounting internally or externally.

The 6000/LED/RED is an ideal addition to our fire alarm system providing a clear indication of a fire alarm, for users with hearing impairment.

As Protec are specialists in the safety systems market, our main objective is to produce high quality and reliable products. Manufacturing at our UK based facilities, our in-house design team develop innovative products which are produced using the latest manufacturing techniques with in-line automatic test equipment to ensure consistent high quality and reliability.

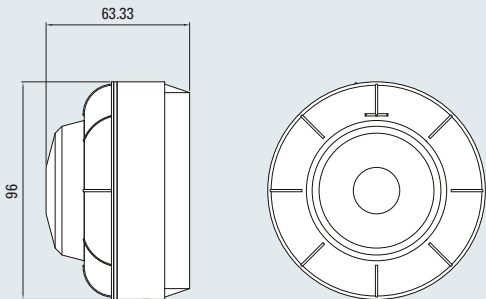6000/LED/RED
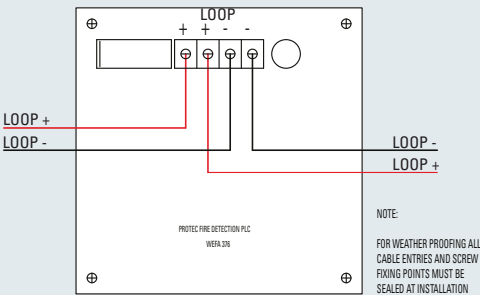
6000/LED/CLEAR

6000/LED/AMBER

6000/LED/BLUE

6000/LED/GREEN

# 6000/LED Technical Specification

## Dimensions (mm)

63.33

96

## Typical Wiring

LOOP
+  +  -  -

LOOP +
LOOP -

LOOP -
LOOP +

PROTEC FIRE DETECTION PLC
WEFA 376

NOTE:
FOR WEATHER PROOFING ALL CABLE ENTRIES AND SCREW FIXING POINTS MUST BE SEALED AT INSTALLATION

## Technical Specification:

| | |
|---|---|
| Loop Powered | Yes |
| Loop Standby Load | 500µA |
| Loop Alarm Load | 5.5mA |
| Number of Addresses | 1 |
| Loop Isolator | Yes |
| Output Details | Array of 18 Red high intensity LED's Flash Rate 1Hz |
| Weight | 99g |
| Temperature Range | -10$^{o}$C to 55$^{o}$C |
| Humidity | 0 to 85% RH non condensing |
| IP Rating | IP65 |
| Construction | ABS Base/Polycarbonate LENS |
| Applicable Standards | Designed to EN54 Part 17 Compliant to CE and LVD standards |
| Device Protocol | Algo-Tec™ 6000 |

## FAST™ Addressing

FAST™ (Firmware Addressed Secure Technology). Each Algo-Tec™ 6000 device is manufactured with a unique serial number factory programmed (firmware embedded) and device label. The label includes the serial number on 2 bar-coded segments, 2 of which are removable by the installer (one is a spare). The label is attached to an address location booklet, which is handed to the engineer prior to commissioning. During commissioning the engineer scans the address location booklet to download the loop, address and serial number details. The downloaded data is then checked and stored within the secure non-volatile memory of the control panel and the addressing is complete. FAST™ and easy, eliminating troublesome and time consuming setting of address cards and DIL switches. FAST™ addressing is more secure than 'SOFT ADDRESSING' and easier to extend or amend, allowing greater flexibility and reduced costs.

## Model References

| Product Code | Colour Options |
|---|---|
| 6000/LED/RED | Red Lens (Red Base) |
| 6000/LED/CLEAR* | Clear Lens (White Base) |
| 6000/LED/AMBER | Amber Lens (White Base) |
| 6000/LED/BLUE | Blue Lens (White Base) |
| 6000/LED/GREEN | Green Lens (White Base) |

| NOTE: All the Model References are loop powered addressable LED beacons, supplied with a low profile base. An optional deep base (below) can be purchased separately to allow surface wiring to be terminated directly into the base. *This unit will flash red. | |
|---|---|
| 29-982-75 | Red Deep Base |
| 29-983-76 | White Deep Base |

## Deep Base Dimensions (mm)

55.5

17

96