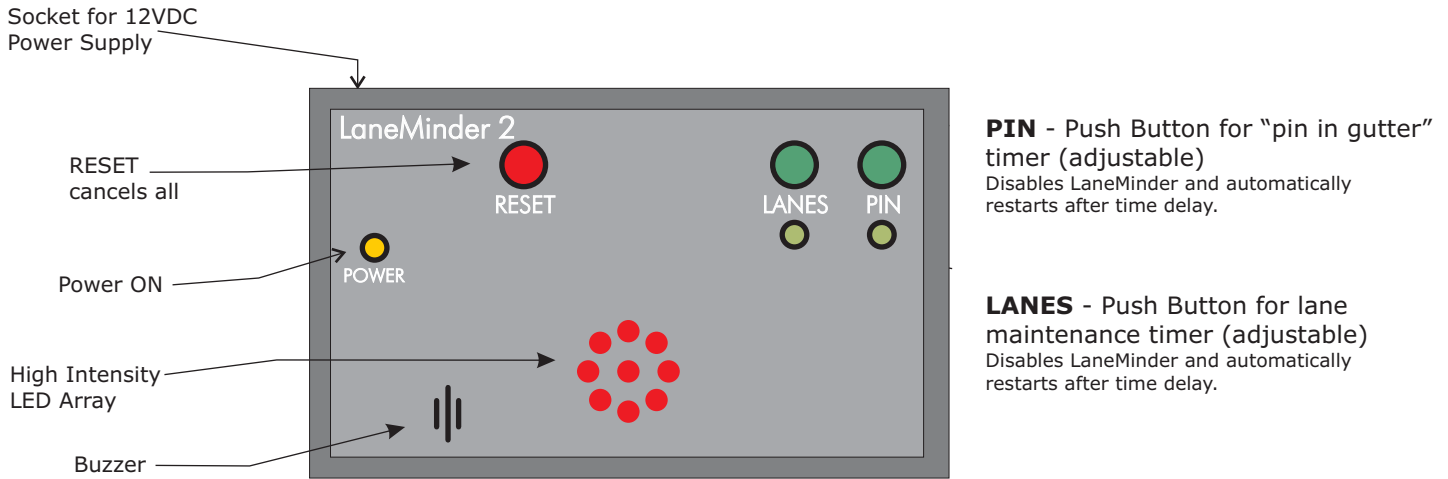
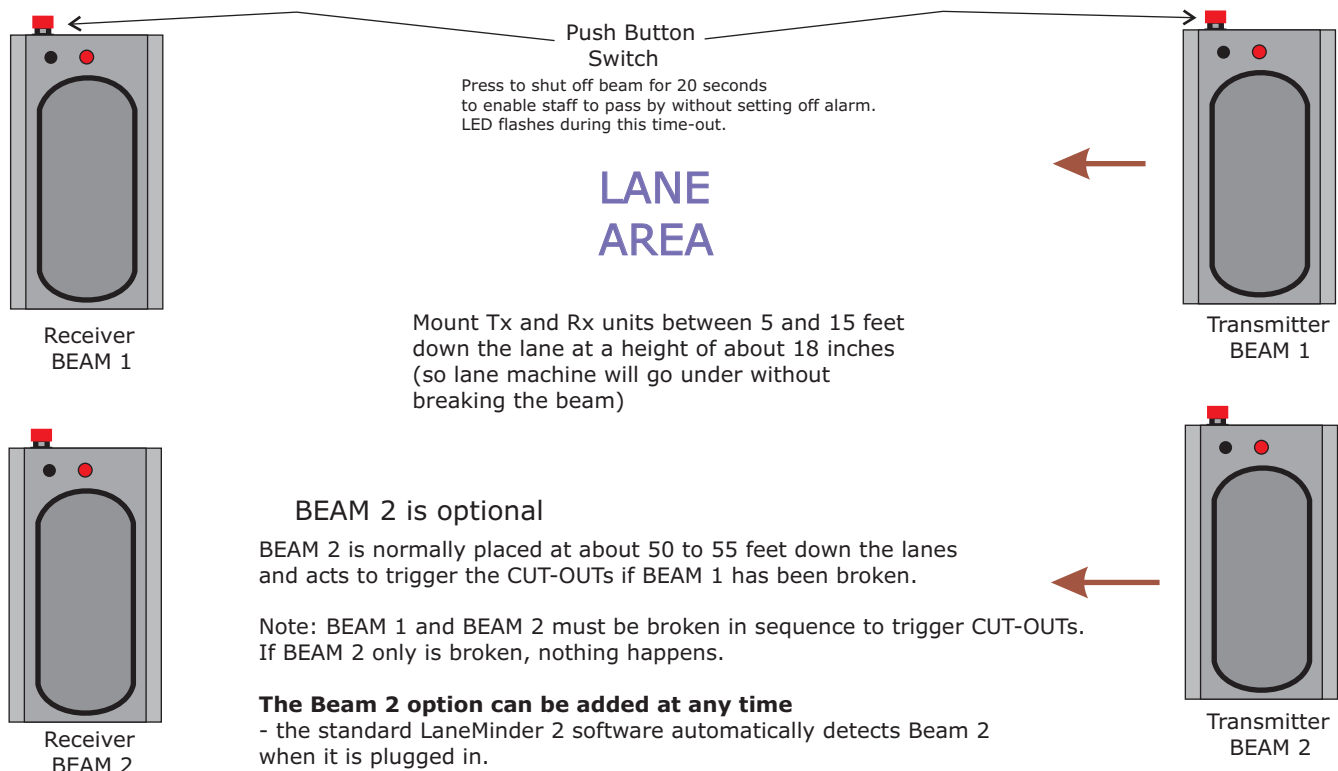
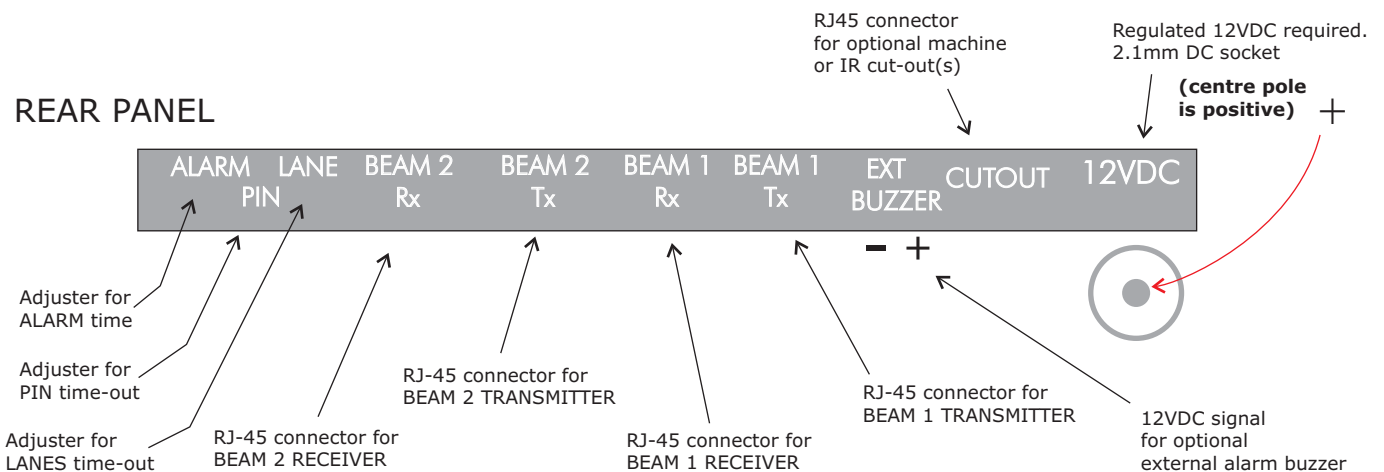


LaneMinder 2



REAR PANEL



Installation

Mount IR Transmit and Receive modules on walls or posts at opposite ends of the LANE AREA between 5 and 15 feet down the lanes at a height of about 18 inches to 2 feet above the lane surface.

Situate the LaneMinder control box at the main reception counter or other suitable position.

Use supplied CAT-5 cables and joiners to connect the IR Transmit and Receive modules to the correct sockets on the rear of the LaneMinder control box. (When only one beam is being used, connect to Beam 1).

Plug the 12VDC power supply into the rear of the LaneMinder control box, plug into a wall outlet and turn on.

When the IR Transmit and IR Receive modules are aligned correctly (see additional sheet for alignment instructions) the LEDs on the modules will be ON. If the LEDs are FLASHING, this means that the beams are not aligned or that the control unit is not receiving the "beam detected" signal.

Operation

When the LaneMinder is **ON**, the **POWER LED** on the control box and the **LEDs** on the Transmit and Receive modules are **ON**. This is known as **DETECT** mode.

When the beam is broken - **ALARM MODE**

Control unit - warning buzzer sounds and **LED array flashes**

Transmit and Receive modules - warning buzzer sounds and **LED** remains **ON**.

PIN delay: Pressing the PIN button shuts the beam off for approximately **2 minutes** (adjustable) to allow staff to go down the lane to attend to escaped pins etc without setting off the LaneMinder. LEDs on Transmit and Receive modules will go out and then start flashing 30 seconds before time period ends.

At the end of the time period, the LaneMinder automatically resets to **DETECT** mode.

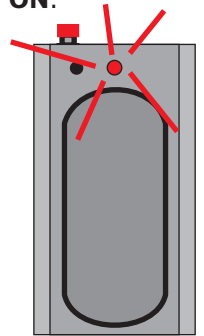
LANE delay: Pressing the LANE button shuts off the beam for approximately **20 minutes** (adjustable) to allow staff to perform lane maintenance without setting off the LaneMinder. LEDs on the Transmit and Receive modules will go out and then start flashing 60 seconds before the end of the time period.

At the end of the time period, the LaneMinder automatically resets to **DETECT** mode.

AISLE delay: Pressing the **RED button** on top of either of the Transmit or Receive modules will shut the beam off for approximately **20 seconds** (automatically doubles to 40 seconds when Beam 2 is plugged in) to allow staff to walk down the side aisles of the centre without setting off the LaneMinder. The **LEDs** on the Transmit and Receive modules will **flash** for this time period.

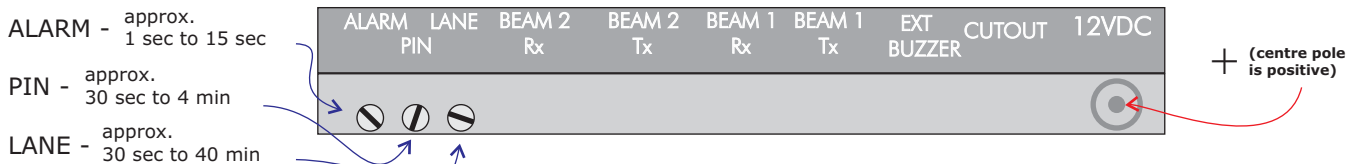
Over-ride priority - **LANE** over-rides **PIN** which over-rides **AISLE**.

RESET cancels **ALL**.



Adjustments

Infra-Red beam alignment and adjustment - refer to beam unit manufacturer's instructions included in the LaneMinder 2 kit.



ALARM - approx.
1 sec to 15 sec

PIN - approx.
30 sec to 4 min

LANE - approx.
30 sec to 40 min

ADJUSTING POTS are 20 TURNS
CLOCKWISE INCREASES TIME
ANTI-CLOCKWISE DECREASES TIME
FACTORY SETTING is about 10 TURNS (1/2 way)

+ (centre pole
is positive)

Options

Optional **BEAM 2 and CUTOUT MODULES**: Provides a **secondary ALARM** mode if tripped and will shut down the Pinspotters or Pinsetters.

BEAM 2 is normally situated about 50 to 55 feet down the lane area and must be broken in sequence after **BEAM 1** is broken to perform its function.

Breaking **BEAM 2** alone will not initiate **ALARM** mode.

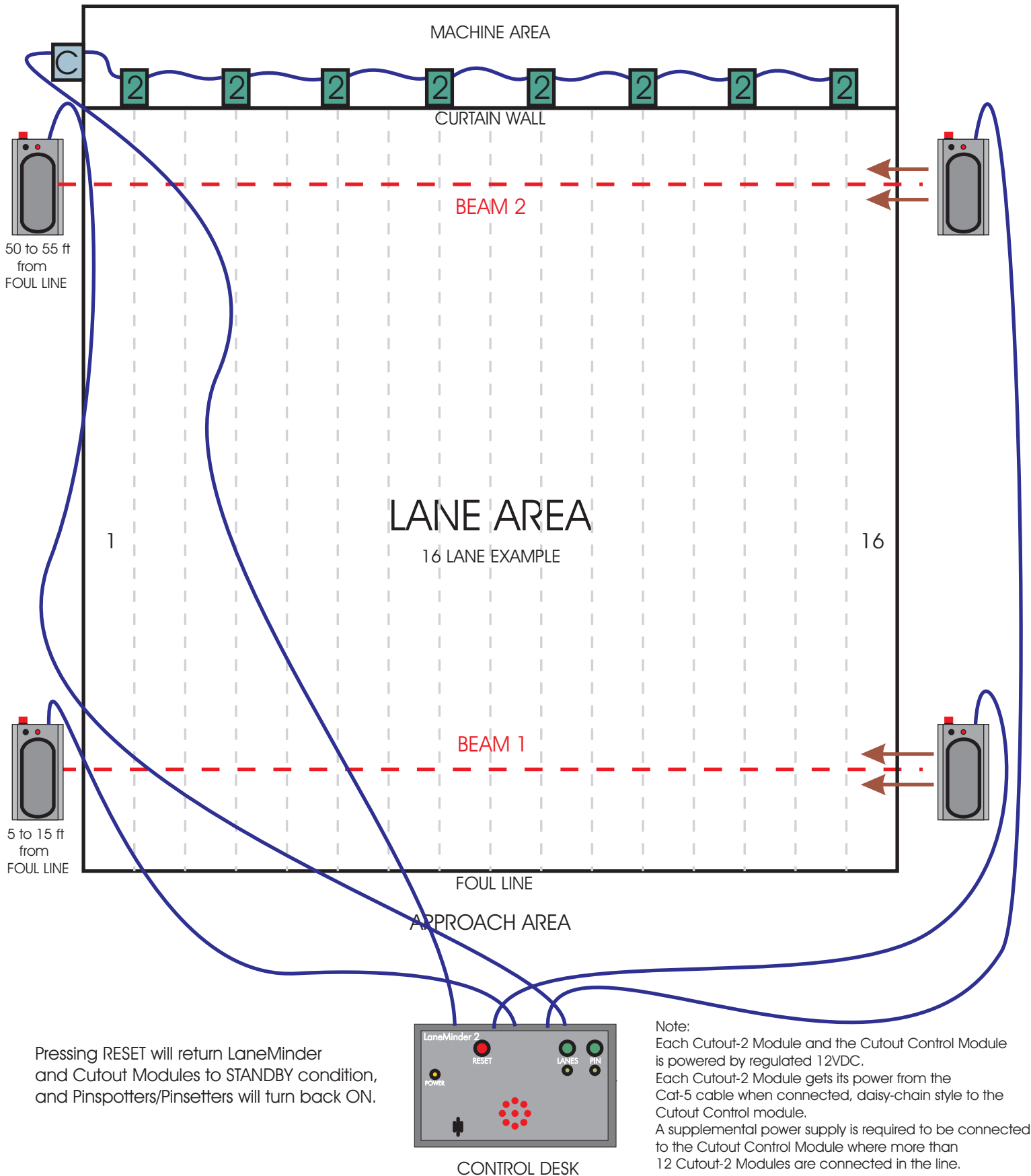
The **secondary ALARM** mode is signified by a **faster ALARM signal**.

CUTOUT MODULE: Allows LaneMinder to **interface** with Pinspotter, Pinsetter or IR (infra-red) triggers to shut them down for safety reasons if both BEAM 1 and BEAM 2 are broken in sequence.

CUTOUT modules are available in 8 lane and 2 lane units.

BEAM 2 Kit with Cutout-2 Modules (to shut off lanes in pairs)

- C** Cutout-2 Modules are fitted, one per pair of lanes in conjunction with a Cutout Control Module. The Cutout Control Module incorporates a status display and a remote RESET and LANE button.
- 2** The Cutout-2 Module incorporates a separate latching relay for each lane of a pair. Connect the Managers Control or Mask Switch circuit to the Cutout-2 Module so that the LaneMinder 2 can immediately switch off the machines if Beam 2 is broken in sequence after Beam 1.



BEAM 2 Kit with Cutout-2 Modules (to shut off lanes in pairs)

Cutout-2 Module

One module per pair of lanes is required to shut down machines when LaneMinder Beam 2 is broken in sequence after Beam 1.

Vertical male 1/4" push-on terminals on the board make it easy to connect either the Managers Control or Mask Switch wires. The Cutout-2 module connects in series in either circuit and the on board relay will open the circuit, shutting down the machine when the LaneMinder goes to its secondary ALARM mode.

The Cutout-2 Module is powered from the 12VDC which is present in the Cat-5 cable. Additional power source is required if more than 12 Modules are being daisy-chained.

Cutout Control Module

One module required for LaneMinder installations where more than one Cutout-2 Module is used or where Remote Control is required.

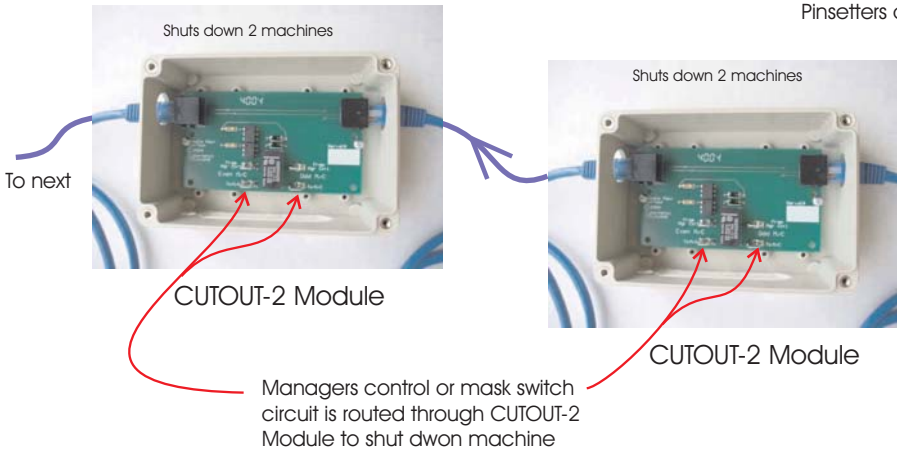
This module also incorporates a LANE and a RESET button, duplicating those functions on the Control Module.

A suggested mounting place for this module is adjacent to the most often used access door between the backend and the lane area.

The Cutout Control Module is the first module in the Cutout daisy chain from the main Control Module. It is powered by 12VDC down the line via the Cat-5 cable. Supplemental 12VDC is required where more than 12 Cutout Modules are being driven.

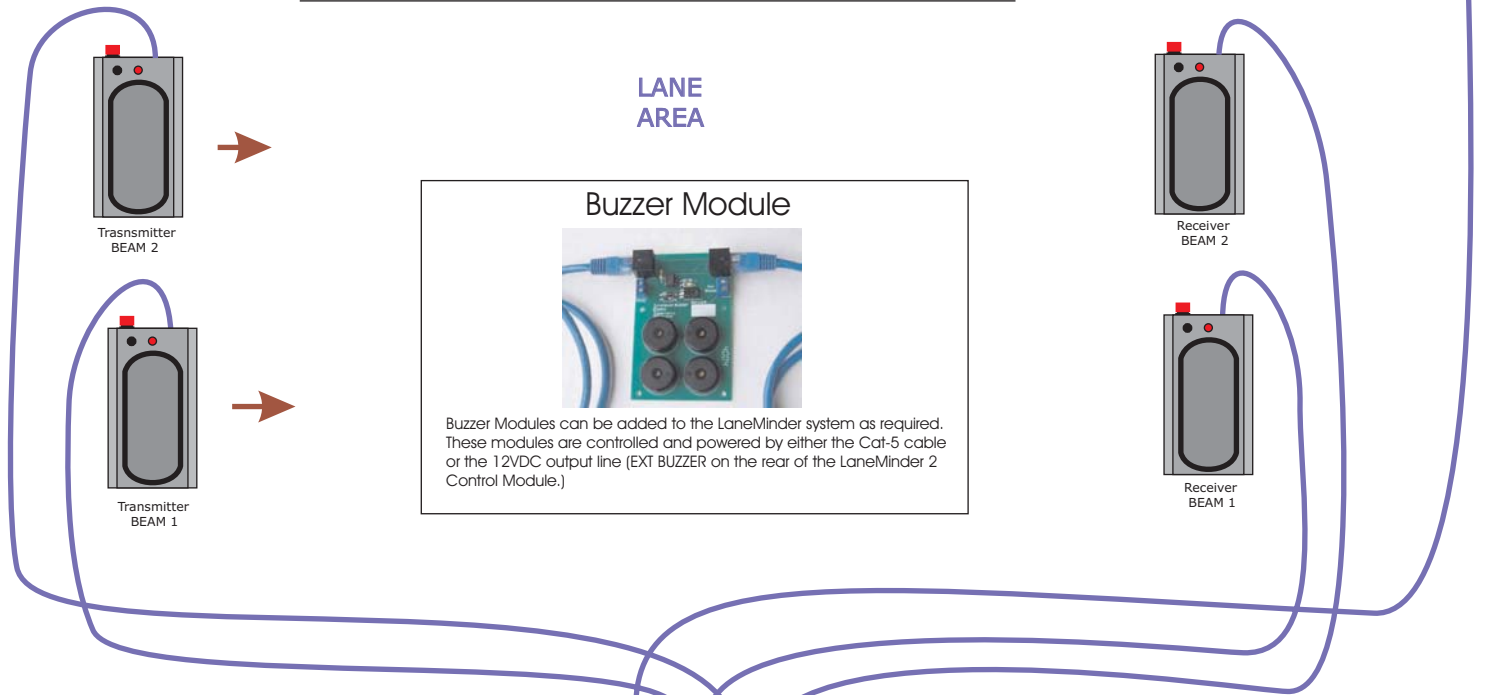
YELLOW LED - indicates STANDBY, where machines are allowed to run.
 RED FLASHING LED indicates LaneMinder second ALARM has been activated and Cutout circuit has been energised.
 Pinsetters or Pinspotters have been shut down.

Daisy-chain Cutout modules together



Showing Remote Control Module and keyfobs


Mask Units




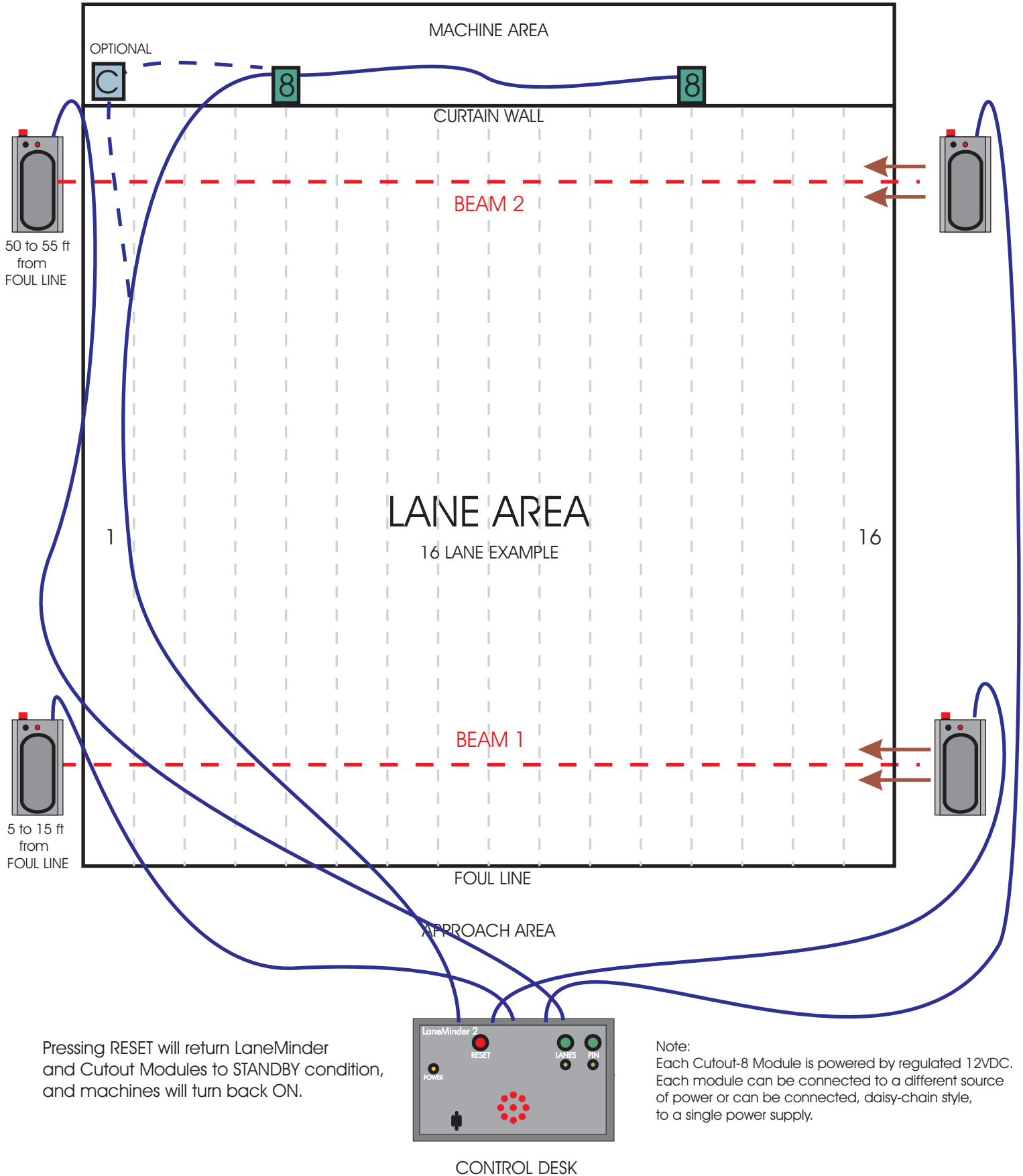
Control Module at Front Desk

BEAM 2 Kit with Cutout-8 Modules (to shut down machines in groups of 8)

Cutout-8 Modules are fitted in conjunction with or in place of the original 8 lane distribution boxes that are situated on the curtain wall of many bowling centres

 The Cutout-8 Module incorporates a separate latching relay for each lane of a group of 8. Connect the Managers Control or Mask Switch circuit to the Cutout-8 Module so that the LaneMinder 2 can immediately switch off the machines if Beam 2 is broken in sequence after Beam 1.

 An optional Cutout Control Module can be fitted as first device in the line. This is necessary if the remote control module is to be fitted.



Pressing RESET will return LaneMinder and Cutout Modules to STANDBY condition, and machines will turn back ON.

BEAM 2 Kit with Cutout-8 Modules

(to shut down machines in groups of 8)

Cutout-8 Module

One module per 8 lanes is required to shut down machines when LaneMinder Beam 2 is broken in sequence after Beam 1.

A Cutout Control Module can be added to the circuit to enable a remote RESET and LANE button to be added.

This module is most suitable where there are existing 8 lane Managers Control distribution boxes mounted on the curtain wall. The module can mount adjacent or even replace the distribution box.

Each Cutout-8 Module is powered by 12VDC (plug pack supplied). The power cable is daisy-chained from unit to unit along with the Cat-5 communication cable.

When the Module is RESET after a shut-down, the relays turn the machines back on in a staggered fashion - 1 then 2 then 3 etc with approx 1/2 second delay between each.

Cutout Control Module

One module required for LaneMinder installations where more than one Cutout-2 Module is used or where Remote Control is required.

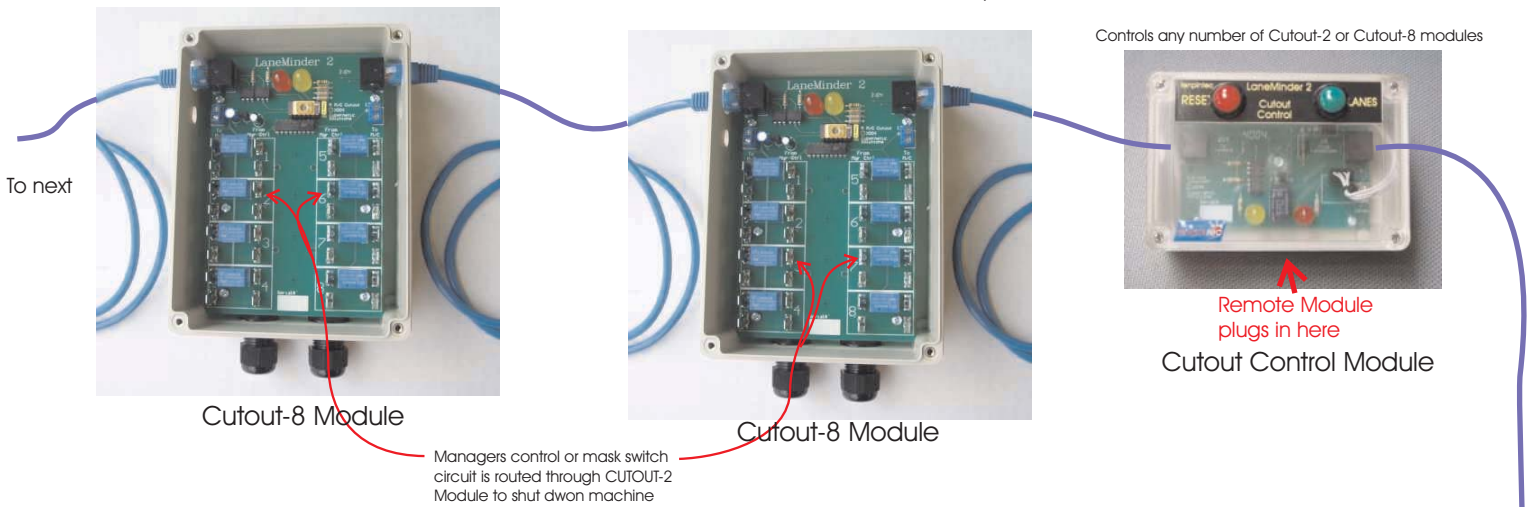
This module also incorporates a LANE and a RESET button, duplicating those functions on the Control Module.

A suggested mounting place for this module is adjacent to the most often used access door between the backend and the lane area.

The Cutout Control Module is the first module in the Cutout daisy chain from the main Control Module. It is powered by 12VDC down the line via the Cat-5 cable.

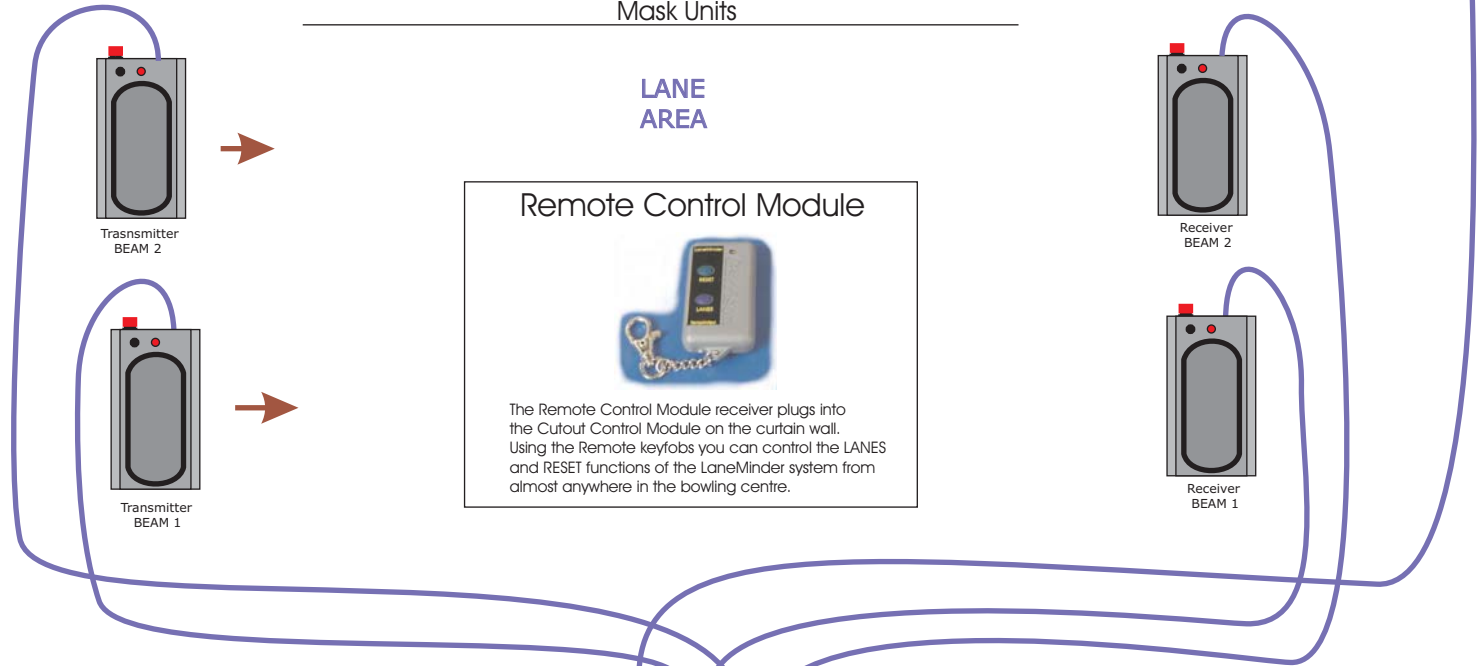
Supplemental 12VDC is required where more than 12 Cutout Modules are being driven.

YELLOW LED - indicates STANDBY, where machines are allowed to run.
 RED FLASHING LED indicates LaneMinder second ALARM has been activated and Cutout circuit has been energised.
 Pinsetters or Pinspotters have been shut down.



Mask Units

LANE AREA



Control Module at Front Desk