

# PERTRONIC INDUSTRIES LTD

## Dual Alert-Evac Strobe - Installation Instructions



### Overview:

The Pertronic Industries **Dual Alert-Evac Strobe** has been designed to provide visual indication for emergency evacuation systems. **The Dual Alert-Evac Strobe** supports two-wire connection, where the selection of coloured strobe is determined by the polarity of the DC voltage applied to the terminals. It may optionally be connected to two separate two-wire sounder circuits for independent control, or to a three-wire driver circuit where appropriate.

The low profile two-part case enables the unit to be easily mounted, and then accessed by the removal of a single screw. The case may be wall or ceiling mounted. Four conveniently placed knockouts are provided for ducted cabling.

### Applications:

- Factories
- Rest homes
- Hospitals
- Suppression Systems



Figure 1 Dual Alert-Evac Strobe

### Specification:

Dimensions:	190 x 100 x 35	H x W x D mm
Weight:	0.54Kg	
Knockout Diameter:	20mm	
Case Colour:	White	
Lens Colour:	Amber (Alert) and Red (Evac)	
Flash Rate:	1.1Hz (at 24V)	
Power Requirements:	Voltage Range	20V to 30V (DC)
	Monitoring voltage	≤0.5V in 2 wire mode
	Operating current	50mA/Strobe (@ 24V)
		0.2uA (stand-by)

Modes of Operation: 2-Wire, 3-Wire or 4-Wire

### Mechanical:

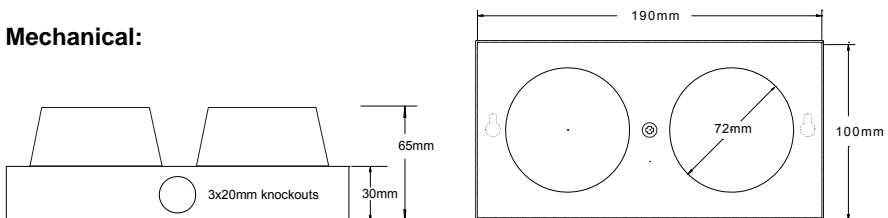


Figure 2 Mechanical Dimensions

**Operation:**

By default the **Dual Alert-Evac Strobe** is factory configured for two-wire connection. However, with a little adjustment, the strobe can be configured to operate in three or four-wire modes.

Two-Wire Mode

This mode uses ‘polarity’ to determine the operation of the **Dual Alert-Evac Strobe**. Each Strobe is daisy-chained to the supply using the terminals labeled 2 and 3, ensuring the fitted diodes are installed. When the DC supply connects –ve voltage to terminal 2, the Amber Strobe is activated. Conversely, when the supply connects +ve voltage to terminal 2 the Red Strobe is activated. Only one strobe can be driven at any one time.

Three-Wire Mode

In this mode, when +ve voltage is applied to the terminal labeled 1, the Red Strobe is activated. When +ve voltage is applied to the terminal labeled 4, the Amber Strobe is activated. The terminals labeled 2 and 3 are used as a common negative. Ensure that a shorting link between terminals 2 and 3 is installed. Either or both strobes can be driven at any one time.

Four-Wire Mode

Four-Wire mode is used when separate independent drive circuits are required for each strobe. When +ve voltage is applied to terminal 1, and –ve to 3, the Red Strobe is activated. When +ve voltage is applied to terminal 4, and –ve to 2, the Amber Strobe is activated. Either or both strobes may be driven at any one time. For correct operation no diodes or shorting link should be fitted.

**Connector Configuration:**

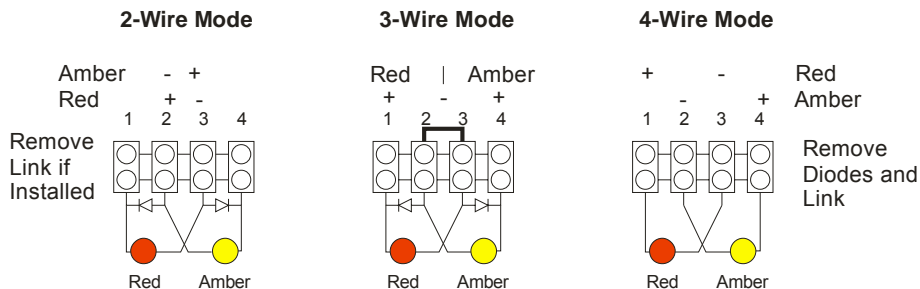


Figure 3 Connector Configuration

**WARNING**

For correct operation, the wiring configuration of each **Dual Alert-Evac Strobe**, must be identical to the next. Failure to connect the terminals with the correct polarity or configuration will result in incorrect operation and / or damage to the components.

**Product Code:**

Description	Product Code
Dual Alert-Evac Strobe with Amber and Red Lenses	DUALSTROBE