

Title (en)
Improved system for individual and remote control of spaced lighting fixtures

Title (de)
Verbessertes System zur individuellen Fernsteuerung räumlich getrennter Leuchteneinheiten

Title (fr)
Système avancé pour la télécommande individuelle des luminaires espacés

Publication
EP 0734196 A1 19960925 (EN)

Application
EP 96104446 A 19960320

Priority
• US 40769695 A 19950321
• US 58511196 A 19960111

Abstract (en)
A plurality of spaced ceiling mounted fixtures (30,100) or other controllable electrical appliances have radiation detectors (22) mounted within each fixture (30,100) and wired internally of the fixture (30,100) to a dimming circuit (25) or to a ballast (31,90). The radiation detectors (22) have sensitivity over a wide angle and have elongated plastic radiation conduction rods (83,84) which extend to or beyond the plane of the lens (101,110) of the fixture (30,100) to be located free of shadow effects of reflections of the fixture lens (101,110). A flexible end light fiber optics can be used in place of the acrylic rods (83,84). A narrow beam radiation transmitter (40,50) selectively illuminates one of the rods (83,84) or end light fiber optics without illuminating the others. The dimming circuits (25) or ballasts (31,90) within the fixtures (30,100) can be further controlled by external dimmers, occupancy sensors, timeclocks, photosensors and other types of input devices. The radiation detector (22) and ballast (31,90) can occupy a common housing and share the same power supply (21) and circuit board. The microcontroller (24) for the radiation detector (22) operates with a 4 of 4 voting mode until a valid signal is detected to switch the system to a 3 of 4 voting mode. A novel mounting adaptor (200) for mounting a visible light fiber optic cable (135) is disclosed with the visible light fiber optic cable (135) conducting infrared radiation for up to 24 inches. <IMAGE>

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Citation (search report)
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