

CLAIMS

1. A lighting device including:
an LED light source (20) operable by electric power supplied to the lighting
5 device; and
a control system (23); and
a connector configured to connect the lighting device to ~~receiving electric power~~
~~from an external power supply, the control system being operable in at least two modes,~~
10 ~~in a first mode the control system being transparent so that power supplied to the~~
~~connector is passed by the control system (26) and supplying power to the light source~~
~~(20), and in a second mode the control system (23) also being operable to supplying~~
~~power from the connector to the LED light source (20) only on receipt by the control~~
~~system (23) via the power supply (26) of a signal identifying said lighting device.~~
- 15 2. A device according to claim 1 wherein, on receipt of said ~~control~~ signal
identifying the lighting device, the control system (23) acts as a switch to control the
supply of electrical power to the LED light source (20).
- 20 3. A device according to claim 1 ~~or claim 2~~ wherein said ~~the control~~ signal
identifying the lighting device includes information identifying the amount of power to
be supplied to the LED light source (20) and hence the brightness of the LED light
source, the control system (22), on receipt of said signal, allowing said amount of power
to pass to the LED light source (20).
- 25 4. A device according to ~~any one of claims 1 to 4~~ in combination with a sensor (3a-
3 d, 29, 30, 31), the sensor, on operation, producing a sensor signal received by the
control system (23), the control system (23) passing power to the LED light source (20)
on receipt of the sensor signal.
- 30 5. A device according to claim 4 wherein the sensor is one of: an ambient light
sensor, a passive infra-red detector, a Doppler radar detector, a smoke alarm, a burglar
alarm.

6. A device according to ~~any one of claims 1 to 5~~ wherein the control system (23) is a microprocessor.
- 5 7. A device according to ~~any one of claims 1 to 6~~ wherein the control system (23) produces an identifier signal identifying the lighting device (20) ~~and for use in the generation of said control signal~~ identifying the lighting device.
- 10 8. A device according to ~~any one of claims 1 to 8~~ wherein the ~~and including a connector (21, 22) for releasably connecting the lighting device (24) to a co-operating connector in a lighting circuit.~~
- 15 9. A device according to ~~any one of claims 1 to 9~~ in a lighting circuit together with a controller (11, 25), the controller (11, 25) generating said ~~control signal~~ identifying the lighting device.
- 10 10. A device according to claim 9 wherein ~~said the control signal~~ identifying the lighting device is a digital signal.
- 20 11. ~~A device according to claim 10 when dependant on claim 2 wherein the control signal is in the form of a packet, a first part of the packet identifying the lighting device (24) and a second part of the packet controlling the control system (23).~~
- 25 1112. A device according to ~~any one of claims 9 to 11~~ wherein the controller (11, 27) is programmable to produce said ~~control signal~~ identifying the lighting device at a predetermined time.
- 30 13. ~~A device according to any one of claims 9 to 12 when dependant on claim 7 wherein the controller (11, 27) receives said identifier signal and stores said signal for use in generating said control signal.~~
14. ~~A device according to any one of claims 9 to 13 wherein the control system (23)~~

~~produces a signal on detection of a fault with the associated device, said fault signal being transmitted to the controller (11, 27) together with said identifier signal.~~

~~1215. A device according to any one of claims 9 to 14 wherein said lighting device is and forming one of a plurality of lightingsaid devices (24) in said lighting circuit, the controller (11, 27) controlling all the lighting devices in said lighting circuit.~~

~~1316. A device according to claim 1215 wherein the controller (11, 27) is programmable to generate control signals for a selected number of said plurality of lighting devices (24) on receipt of an input signal thereto.~~

~~1417. A device according to claim 1318 wherein the input signal is generated by manual operation of a switch connected to the controller.~~

~~1518. A device according claim 1218 or claim 19 wherein the controller (11, 27) is programmable to generate control signals for a first selected number of said lighting devices (24) on receipt of a first input signal thereto and to generate control signals for a second selected number of said lighting devices (24) on receipt of a second input signal thereto, the first and second input signals being generated by respective switches.~~

16. A device according to claim 10 wherein, on receipt of said signal identifying the lighting device, the control system acts as a switch to control the supply of electrical power to the LED light source and wherein said signal identifying the lighting device is in the form of a packet, a first part of the packet identifying the lighting device and a second part of the packet controlling the control system.