Claims

1. An elevator call system for an elevator comprising an elevator controller, the elevator call system comprising:

a sensor module disposed adjacent a landing door of the elevator and being in signal communication with the elevator controller, the sensor module being operated for sending a call request signal to the elevator controller in responses to sensing a passenger being within a pre-determined distance from the sensor module;

a call indicator for providing visual indication of the call request signal being provided to the elevator controller; and

a call button electrically coupled in parallel to the sensor module for further signal communication with the elevator controller, the call request signal being sent to the elevator controller in response to at least one of the sensor module being operated and the call button being one of depressed and touched, the call button being a mechanical switch,

wherein the sensor module comprises an infrared reflective sensor configured for sensing the proximity of the passenger thereto, and

wherein the housing has a conduit protruding therefrom and wherethrough wired connectors between the sensor module and at least one of the elevator controller and the call button, the conduit being shaped and dimensioned for being disposed through an opening formed in an elevator call panel for positioning the sensor module to a front of the elevator call panel and for protruding from and for fastening at the rear of the elevator call panel to thereby mount the housing to the elevator call panel.

2. The elevator call system as in claim 1, the call indicator being at least one visual indicator being integrated with one of the call button and the sensor module.

3. The elevator call system as in claim 2, the call indicator being one of an LED array, an LCD and at least one at least one light bulb.

4. The elevator call system as in claim 1, further comprising:

a housing for receiving the sensor module therein, the housing defining an aperture wherethrough the sensor module is operable for sensing proximity of a passenger.

5. The elevator call system as in claim 4, the sensor module further comprising:

a control circuitry coupled to the infrared reflective sensor and received in the housing, the control circuitry being electrically driven for enabling operating of the infrared reflective sensor and for communicating the call request signal to the elevator controller in response to close proximity of a passenger to the infrared reflective sensor being sensed.

6. The elevator call system as in claim 1, the conduit being cylindrical and externally threaded for being fastened by a nut at the rear of the elevator call panel.

7. The elevator call system as in claim 6, the elevator call panel having at least one call button coupled thereto.

8. An elevator call method for an elevator comprising an elevator controller, the elevator call method comprising:

sensing proximity of a passenger to a sensor module disposed adjacent a landing door of the elevator and being in signal communication with the elevator controller;

sending a call request signal to the elevator controller by the sensor module in responses to the passenger being within a pre-determined distance from the sensor module; and

providing visual indication of the call request signal being provided to the elevator controller,

wherein the sensor module comprises an infrared reflective sensor configured for sensing the proximity of the passenger thereto,

wherein a call button electrically is coupled in parallel to the sensor module for further signal communication with the elevator controller, the call request signal being sent to the elevator controller in response to at least one of the sensor module being operated and the call button being one of depressed and touched, the call button being a mechanical switch, and

wherein the sensor module is received in a housing defining an aperture wherethrough the sensor module is operable for sensing proximity of a passenger, the housing having a conduit protruding therefrom and wherethrough wired connectors between the sensor module and at least one of the elevator controller and the call button, the conduit being shaped and dimensioned for being disposed through an opening formed in an elevator call panel for positioning the sensor module to a front of the elevator call panel and for protruding from and for fastening at the rear of the elevator call panel to thereby mount the housing to the elevator call panel, the conduit being cylindrical and externally threaded for being fastened by a nut at the rear of the elevator call panel.

9. The elevator call method as in claim 8, the call indicator being at least one visual indicator being integrated with one of the call button and the sensor module,

wherein the call indicator being one of an LED array, an LCD and at least one at least one light bulb.

10. The elevator call method as in claim 8, the sensor module further comprising:

a control circuitry coupled to the infrared reflective sensor and received in the housing, the control circuitry being electrically driven for enabling operating of the infrared reflective sensor and for communicating the call request signal to the elevator controller in response to close proximity of a passenger to the infrared reflective sensor being sensed.

11. A call sensor module for an elevator comprising an elevator controller, the call sensor module comprising:

an infrared reflective sensor disposed adjacent a landing door of the elevator and configured for sensing proximity of a passenger thereto;

a control circuitry coupled to the infrared reflective sensor, the control circuitry being electrically driven for enabling operating of the infrared reflective sensor and for communicating a call request signal to the elevator controller in response to the passenger being sensed by the infrared reflective sensor and being determined to be within a pre-determined distance from the infrared reflective sensor; and

a housing for receiving the infrared reflective sensor therein, the housing defining an aperture wherethrough the infrared reflective sensor is operable for sensing proximity of a passenger, the housing comprising a conduit protruding therefrom and wherethrough wired connectors between the sensor module and at least one of the elevator controller and the call button, the conduit being shaped and dimensioned for being disposed through an opening formed in an elevator call panel for positioning the sensor module to a front of the elevator call panel and for protruding from and for fastening at the rear of the elevator call panel to thereby mount the housing to the elevator call panel, the conduit being cylindrical and externally threaded for being fastened by a nut at the rear of the elevator call panel,

wherein the control circuitry is electrically couplable in parallel to a call button for further signal communication with the elevator controller, the call request signal being sent to the elevator controller in response to at least one of the sensor module being operated and the call button being one of depressed and touched, the call button being a mechanical switch.

12. The call sensor module as in claim 11, further comprising:

a call indicator for providing visual indication of the call request signal being provided to the elevator controller.

13. The call sensor module as in claim 12, the call indicator being one of an LED array, an LCD and at least one at least one light bulb.