ELMDENE
Protecting People & Property

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Proximity Exit Button with touch-free control

AMS-EBIR4-BG

FEATURES

Elmdene's AMS-EBIR4-BG is an IR proximity sensor designed as request-to-exit device for use in Access control systems.   The illuminated designs provide modern and stylish solution to a buildings door entry/exit system and the built-in buzzer provides audible feedback.

It enables applications where it is necessary to open a door without physically touching a button. This helps reduce the spread of infection in places such as hospitals, schools, care homes or other high-traffic or shared occupancy areas.   They are also ideal for systems designed to assist disabled or elderly users.
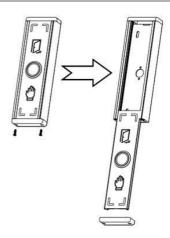
SPECIFICATION

Input Voltage	12Vdc – 24Vdc (+/- 15%)
Operating Range* (approx.)	3cm- 20cm (adjustable)
Latch Time	0.5s to 30s (adjustable)
Max. current @12V (Active / Quiescent)	62mA / 38mA
LED colour (default)	BLUE = Standby / GREEN = Activated (can be swapped)
Contacts	NO & NC (1A@30VDC max)
Size (mm)	80W x 260H x 28D (Surface mounted)
Material	Aluminium and PC housing
Weight	600g
Operating temp	-10°C to +70°C.

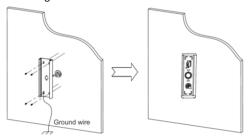* different materials have different reflective rates. Value based on 18% neutral grey card

INSTALLATION INSTRUCTIONS

1. Connections are made to the switches via the terminals on the internal control board

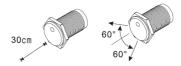2. Remove the screws and carefully slide the sensor plate from the rear housing

3. Fix the rear housing using suitable fixings and make suitable ground connection

4. Make the appropriate connections to the control board

- V+   -   +ve Supply
- V-   -   0v Supply
- N.O-1   -   Sensor NO Contact
- COM-1   -   Sensor Common Contact
- N.C-1   -   Sensor NC Contact
- N.O-2   -   Normal Open contact
- COM-2   -   Common
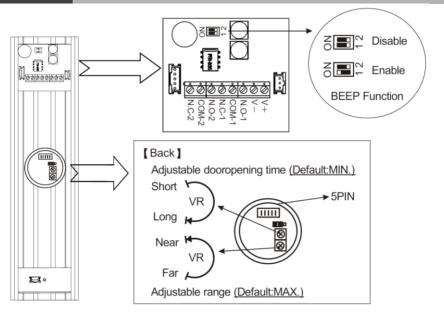- N.C-2   -   Normal Closed Contact

5. In order to ensure unimpeded operation of the Infra Red switch, please make sure that there are no objects or any obstacles within 30cm (60° to the left & right) of the panel, to avoid interference.
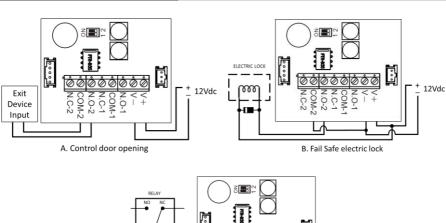
6. To activate the switch, pass your hand across the face of the device, once activated the LED colour will change for the set 'latch' time.

7. To increase or decrease the detection range or the latch time adjust the relevant potentiometer at the rear of the device as described below:

SETTINGS

ON 1 2 Disable
ON 1 2 Enable
BEEP Function

【Back】
Adjustable dooropening time (Default:MIN.)
Short
VR
Long
5PIN
Near
VR
Far
Adjustable range (Default:MAX.)

TYPICAL APPLICATION

Exit Device Input
+ 12Vdc
A. Control door opening

ELECTRIC LOCK
+ 12Vdc
B. Fail Safe electric lock

RELAY
NO NC
COM
+ 12Vdc
C. Relay control

TROUBLE SHOOTING

Issue: Device continuously activated.

Likely Cause:
- Ensure no obstacles are in the detection range of the device.
- Reduce detection range if the switch is being activated by a close proximity source.
- Check the supply voltage is within the specified range.

Issue: Device does not activate.

Likely Cause:
- Increase detection range to ensure it is not set to low.
- Check the supply voltage is within the specified range.

PRECAUTIONS:
- Before installation, check correct supply voltage and polarity.
- Ensure no object is blocking the sensor on power up.
- The unit carries out a self-test function at power up activating the LED (not the relay) for 1 sec.
- Do not conduct any modifications to the unit as this will invalidate the warranty.

MAINTENANCE

There is no regular maintenance required of these devices

DISPOSAL AT END OF LIFE

This product falls within the scope of EU Directive 2002/96/EC Waste Electrical and Electronic Equipment (WEEE). At the end of life, the product must be separated from the domestic waste stream and disposed via an appropriate approved WEEE disposal route in accordance with all national and local regulations.

The packaging supplied with this product may be recycled. Please dispose of packaging accordingly.

COMPLIANCE

These products are CE compliant and meet the essential requirements of the following European Directives:

Low Voltage 2014/35/EU   EMC 2014/30/EU   WEEE 2012/19/EU   RoHs2 2011/65/EC

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