DESCRIPTION

1. LCD
2. IR-curtain width adjustment
3. IR-lenses
4. cover
5. main connector
6. main adjustment knob
7. IR-curtain angle adjustment knob

ACCESSORIES

10IMB: Bracket accessory
10ICA: Ceiling accessory
10IRA: Rain accessory
35.1286: black cover
35.1302: white cover
35.1303: silver cover
10CDA: Curved door accessory
10IXIOSPACER: Spacer

Download the BEA DECODER app for a quick overview of settings
Mounting & Wiring

Sensor connectivity (power and relays) must utilize only the supplied harness. Sensor power must be supplied from a Class 2 supply source limited to 15 W. Sensor is intended to be monitored for proper operation by the door operator or system. Harness shall be routed separated from any Mains or non-Class 2 voltage cable for correct operation or shall be rated for the Mains voltage, and suitable protection and routing means shall be used according to National and Local Codes to prevent damage to the harness.
3 INFRARED SAFETY FIELD

**ANGLE**

Activate the visible* spots to verify the position of the IR-curtain. If necessary, adjust the IR-curtain angle (from -7° to 4°, default 0°).

*Visibility depends on external conditions. When spots are not visible, use the Spotfinder to locate the curtains.

**WIDTH**

Part of the detection field can be masked to reduce it. The arrow position determines the width of the detection field. Always verify the actual detection field width with a piece of paper and not the Spotfinder, which detects the whole emitted field.

The size of the detection field varies according to the mounting height and the settings of the sensor. The full door width must be covered.

<table>
<thead>
<tr>
<th>Mounting height</th>
<th>Detection width</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.5 ft</td>
<td>6.5 ft</td>
</tr>
<tr>
<td>7.2 ft</td>
<td>7.2 ft</td>
</tr>
<tr>
<td>8.2 ft</td>
<td>8.2 ft</td>
</tr>
<tr>
<td>9.8 ft</td>
<td>d max</td>
</tr>
<tr>
<td>11.5 ft</td>
<td>d max</td>
</tr>
</tbody>
</table>

Additional adjustments are possible by LCD or remote control (see p. 5).

4 SETUP

**SETUP 1 (QUICK)**

reference picture

**SETUP 2 (ASSISTED)**

test of full door cycle + reference picture

**STEP OUT OF THE INFRARED FIELD!**

**TEST THE PROPER OPERATION OF THE INSTALLATION BEFORE LEAVING THE PREMISES!**

**NOTE**

**d max**

**2 s**

**4 s**

**3 in**
HOW TO USE THE LCD?

DISPLAY DURING NORMAL FUNCTIONING

- Activation impulse
- Safety

- Negative display = active output

- To adjust contrast, push and turn the grey button simultaneously.
  During normal function only.

FACTORY VALUE VS. SAVED VALUE

- displayed value = factory value
- displayed value = saved value

NAVIGATING IN MENUS

- Push to enter the LCD-menu
- Enter password if necessary
- Not during the first minute after power-on of the sensor.

- Select your language before entering the first LCD-menu.
- During the first 30 seconds after power-on of the sensor or later in the diagnostics menu.

- Select More to go to next level:
  - basic settings
  - advanced settings
  - diagnostics

CHANGING A VALUE

- Scroll menu up-down
- Push to select parameter
- current value is displayed
- more values are displayed
- new value is displayed

CHANGING A ZIP CODE

- See application note on ZIP CODE

CHANGING A ZIP CODE

- Validate the last digit in order to activate the new ZIP code:
  - v = valid ZIP code, values will be changed accordingly
  - x = invalid ZIP code, no values will be changed
  - v/x = valid ZIP code, but from a different product.
  - Only available values will be changed.

VALUE CHECK WITH REMOTE CONTROL

- Pressing a parameter symbol on your remote control, displays the saved value directly on the LCD-screen. Do not unlock first.
## OVERVIEW OF SETTINGS

### BASIC
- **IR: WIDTH**
  - Options: Normal, Enhanced
  - Service mode = no IR detection during 15 minutes (maintenance).
  - This value excludes conformity of the door system to EN 16005 and DIN 18650.

- **IR: OUTPUT**
  - Options: DeEner/NO, Energ/NC
  - Factory value

### ADVANCED
- **REDIRECTION**
  - Options: Off, On
  - View of spot(s) that trigger detection

### FACTORY RESET
- **ZIP CODE**
  - All parameter settings in zipped format
  - (see application note on ZIP CODE)

### DIAGNOSTICS
- **ERROR LOG**
  - Last 10 errors + day indication
- **SPOTVIEW**
  - View of spot(s) that trigger detection

---

### Settings Table

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>IR: WIDTH</td>
<td>Normal, Enhanced</td>
</tr>
<tr>
<td>IR: OUTPUT</td>
<td>DeEner/NO, Energ/NC</td>
</tr>
<tr>
<td>IR: IMMUNITY</td>
<td>Normal, mode B</td>
</tr>
<tr>
<td>IR: NUMBER</td>
<td>Service mode 1, 2</td>
</tr>
<tr>
<td>IR: PRESENCE TIME</td>
<td>30 s, 1 min, 2 min, 5 min, 10 min, 20 min, 60 min, infinite</td>
</tr>
<tr>
<td>IR: FREQ</td>
<td>A, B</td>
</tr>
<tr>
<td>IR: OUTPUT</td>
<td>DeEner/NO, Energ/NC</td>
</tr>
<tr>
<td>RAD: HOLDTIME</td>
<td>0.5 s, 1 s, 2 s, 3 s, 4 s, 5 s, 6 s, 7 s, 8 s, 9 s</td>
</tr>
<tr>
<td>RAD: OUTPUT</td>
<td>DeEner/NO, Energ/NC</td>
</tr>
<tr>
<td>RAD: IMMUNITY</td>
<td>Normal, mode B</td>
</tr>
<tr>
<td>RAD: NUMBER</td>
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</tr>
<tr>
<td>RAD: OUTPUT</td>
<td>DeEner/NO, Energ/NC</td>
</tr>
</tbody>
</table>

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### Additional Notes
- Always additionally adjust the arrow position on the sensor with a screwdriver.
- NO: normally open, NC: normally closed
- DeEner: De-Energized relay
- Energ: Energized relay
- NO: normally open, NC: normally closed
- Factory value

---

### ZIP CODE
- All parameter settings in zipped format
- Unique ID-number

### ID #
- Unique ID-number

### CONFIG P/N
- Software P/N

### SOFT P/N
- Information about software

### ERROR LOG
- Last 10 errors + day indication

### ADMIN
- Enter code to access admin mode

### Password
- LCD and remote control password
- Factory default: 0000

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### Notes
- All settings can be backed up in a zipped format (ZIP CODE).
- ZIP CODE includes all parameter settings in a zipped format.
- Unique ID-number allows for easy identification of the system.
<table>
<thead>
<tr>
<th>E1 ORANGE LED flashes 1 x.</th>
<th>The sensor signals an internal fault.</th>
<th>1 Replace sensor.</th>
</tr>
</thead>
<tbody>
<tr>
<td>E2 ORANGE LED flashes 2 x.</td>
<td>The power supply is too low or too high.</td>
<td>1 Check power supply (in the diagnostics menu of the LCD). 2 Check wiring.</td>
</tr>
<tr>
<td>E4 ORANGE LED flashes 4 x.</td>
<td>The sensor receives not enough IR-energy.</td>
<td>1 Increase the IR-immunity filter. 2 Deactivate 1 curtain.</td>
</tr>
<tr>
<td>E5 ORANGE LED flashes 5 x.</td>
<td>The sensor receives too much IR-energy.</td>
<td>1 Slightly increase the angle of the IR-curtains. 2 Decrease the IR-immunity filter.</td>
</tr>
<tr>
<td>E8 ORANGE LED flashes 8 x.</td>
<td>The sensor is disturbed by external elements.</td>
<td>1 Eliminate the cause of disturbance (lamps, rain cover, door controller housing properly grounded).</td>
</tr>
<tr>
<td>ORANGE LED is on.</td>
<td>The sensor encounters a memory problem.</td>
<td>1 Cut and restore power supply. 2 If orange LED lights up again, replace sensor.</td>
</tr>
<tr>
<td>RED LED flashes quickly after an assisted setup.</td>
<td>The sensor sees the door during the assisted setup.</td>
<td>1 Move the IR-curtains away from the door. 2 Install the sensor as close to the door as possible. If needed, use a bracket accessory. 3 Launch a new assisted setup.</td>
</tr>
<tr>
<td>RED LED lights up sporadically.</td>
<td>The sensor vibrates.</td>
<td>1 Check if the sensor is fastened firmly. 2 Check position of cable and cover.</td>
</tr>
<tr>
<td></td>
<td>The sensor sees the door.</td>
<td>1 Launch an assisted setup and adjust the IR angle.</td>
</tr>
<tr>
<td></td>
<td>The sensor is disturbed by external conditions.</td>
<td>1 Increase the IR-immunity filter.</td>
</tr>
<tr>
<td>The LED and the LCD-display are off.</td>
<td>The sensor is protected by a password.</td>
<td>1 Enter the right password. If you forgot the code, cut and restore the power supply to access the sensor without entering a password during 1 minute.</td>
</tr>
<tr>
<td>The reaction of the door does not correspond to the LED-signal.</td>
<td></td>
<td>1 Check wiring.</td>
</tr>
<tr>
<td>The LCD or remote control does not react.</td>
<td></td>
<td>1 Check output configuration setting. 2 Check wiring.</td>
</tr>
</tbody>
</table>

- IXIO sensors are intended to be used with pedestrian sliding door systems.
- This device can be expected to comply with Part 15 of the FCC Rules provided it is assembled in exact accordance with the instructions provided with this kit. Operation is subject to the following conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received including interference that may cause undesired operation.
LED-SIGNAL

- AUX
- Presence detection
- LED flashes
- LED flashes times
- LED flashes red-green
- LED flashes quickly
- LED is off

INSTALLATION

- The sensor should be mounted firmly to avoid extreme vibrations.
- Do not cover the sensor.
- Avoid moving objects and light sources in the detection field.
- Avoid highly reflective objects in the infrared field.

MAINTENANCE

- It is recommended to clean the optical parts at least once a year or more if required due to environmental conditions.
- Do not use aggressive products to clean the optical parts.

SAFETY

- The door control unit and the door cover profile must be correctly earthed.
- Only trained and qualified personnel may install and setup the sensor.
- Always test the proper operation of the installation before leaving the premises.
- The warranty is invalid if unauthorized repairs are made or attempted by unauthorized personnel.

- The device cannot be used for purposes other than its intended use. All other uses cannot be guaranteed by the manufacturer of the sensor.
- The manufacturer of the door system is responsible for carrying out a risk assessment and installing the sensor and the door system in compliance with applicable national and international regulations and standards on door safety.
- The manufacturer of the sensor cannot be held responsible for incorrect installations or inappropriate adjustments of the sensor.
## TECHNICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supply Voltage</td>
<td>12 V - 24 V AC +/-10%; 12 V - 30 V DC +/-10% (to be operated from SELV compatible power supplies only)</td>
</tr>
<tr>
<td>Power Consumption</td>
<td>&lt; 2.5 W</td>
</tr>
<tr>
<td>Mounting Height</td>
<td>6.5 ft to 11.5 ft (local regulations may have an impact on the acceptable mounting height)</td>
</tr>
<tr>
<td>Temperature Range</td>
<td>-13°F to +131°F; 0-95% relative humidity, non condensing</td>
</tr>
<tr>
<td>Degree of protection</td>
<td>IP54</td>
</tr>
<tr>
<td>Noise</td>
<td>&lt; 70 dB</td>
</tr>
<tr>
<td>Expected lifetime</td>
<td>20 years</td>
</tr>
<tr>
<td>Applicable directives</td>
<td>R&amp;TTE 1999/5/EC; MD 2006/42/EC; LVD 2006/95/EC; ROHS 2 2011/65/EU</td>
</tr>
</tbody>
</table>

### Detection mode:
- Presence
  - Typical response time: < 200 ms (max. 500 ms)

### Technology:
- Active infrared with background analysis
  - Spot: 2 in x 2 in (typ)
  - Number of spots: max. 24 per curtain
  - Number of curtains: 2

### Output:
- Solid-state-relay (potential and polarity free)
  - Max. contact current: 400 mA
  - Max. contact voltage: 42 V AC/DC
- Solid-state-relay (potential and polarity free)
  - Max. contact current: 400 mA
  - Max. contact voltage: 42 V AC/DC
  - Holdtime: 0.3 to 1 s

### Test input:
- Sensitivity: Low: < 1 V; High: > 10 V (max. 30 V)
- Response time on test request: typical: < 5 ms

### Norm conformity:
- EN 12978
- EN ISO 13849-1:2008 PL «e» CAT. 2 (under the condition that the door control system monitors the sensor at least once per door cycle)
- IEC 61496-1:2012 ESPE Type 2
- EN 16005:2012 Chapter 4.6.8; DIN 18650-1:2010 Chapter 5.7.4
- BS 7036-1:1996 Chapter 8.1

Specifications are subject to changes without prior notice.
All values measured in specific conditions.

### ANSI / AAADM Compliance

Upon completion of the installation or service work, at a minimum, perform a daily safety check in accordance with the minimum inspection guidelines provided by AAADM. Provide each equipment owner with an owner’s manual that includes a daily safety checklist and contains, at a minimum, the information recommended by AAADM. Offer an information session with the equipment owner explaining how to perform daily inspections and point out the location of power/operation switches to disable the equipment if a compliance issue is noted. The equipment should be inspected annually in accordance with the minimum inspection guidelines. A safety check that includes, at a minimum, the items listed on the safety information label must be performed during each service call. If you are not an AAADM certified inspector, BEA strongly recommends you have an AAADM certified inspector perform an AAADM inspection and place a valid inspection sticker below the safety information label prior to putting the equipment into operation.