

# QUICK GUIDE

# IXIO-ST

## PRESENCE SENSOR FOR AUTOMATIC SLIDING DOORS

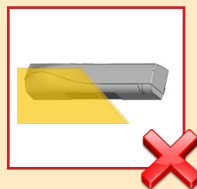


Refer to the User's Guide for full instructions.

### READ BEFORE BEGINNING INSTALLATION & SETUP



The sensor should be mounted securely to avoid extreme vibrations.



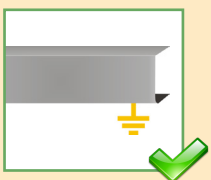
Do not cover the sensor.



Avoid moving objects and light sources in the detection field.



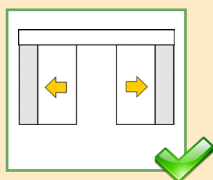
Avoid highly reflective objects in the infrared field.



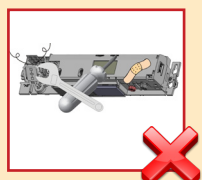
The door control unit and the header cover profile must be correctly grounded.



Only trained and qualified personnel are recommended for installation and setup of the sensor.



Following installation, always test for proper operation (according to ANSI 156.10) before leaving the premises.

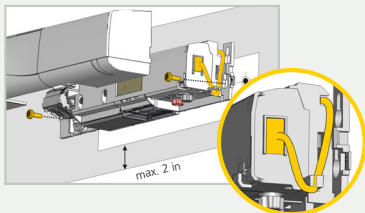


The warranty is invalid if unauthorized repairs are made or attempted by unauthorized personnel.

*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.*

## 1 MOUNTING & WIRING

Refer to Application Note 76.0035 if an IXIO Spacer is required for the given application.



| SENSOR       |               | DOOR CONTROL |  |
|--------------|---------------|--------------|--|
| RED          | POWER SUPPLY  |              |  |
| BLACK        | POWER SUPPLY  |              |  |
| BROWN        | SAFETY INPUT  |              |  |
| BLUE         | SAFETY INPUT  |              |  |
| WHITE (COM)  | OPENING INPUT |              |  |
| YELLOW (N.C) | OPENING INPUT |              |  |
| GREEN (N.O.) | OPENING INPUT |              |  |
| PURPLE       | TEST OUTPUT*  |              |  |
| PURPLE       | TEST OUTPUT*  |              |  |

POWER  
 12 – 24 VAC/VDC  
 12 – 30 VDC  
 2.5 W (max)

TEST  
 low: < 1 V  
 high: > 10 V (30 V max.)  
 response time: typ. < 5 ms

Sensor connectivity (power and relays) must utilize only the supplied harness.

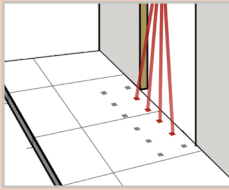
Sensor power must be supplied from a Class 2 supply source limited to 15 W.

Sensor is intended to be monitored for proper operation by the door operator or system.

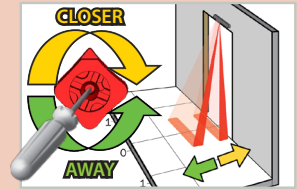
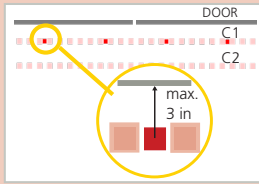
Harness shall be routed separated from any Mains or non-Class 2 voltage cable for correct operation or shall be rated for the Mains voltage, and suitable protection and routing means shall be used according to National and Local Codes to prevent damage to the harness and/or IXIO sensor.

## 2 INFRARED SAFETY FIELD

### ANGLE

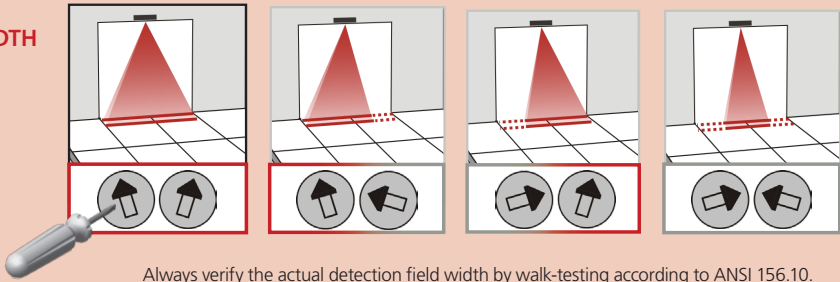


Activate the visible spots.



Adjust the angle, if necessary.

### WIDTH



Always verify the actual detection field width by walk-testing according to ANSI 156.10.

## 3 SETUP

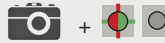


STEP OUT OF THE INFRARED FIELD!

### SETUP 1 (QUICK)

reference picture

either hold the knob for 2 seconds, or use the remote control buttons as specified



### SETUP 2 (ASSISTED)

test of full door cycle + reference picture  
either hold the knob for 4 seconds, or use the remote control buttons as specified



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

## LED SIGNALS

### COLORS



(green)  
AUX



(red)  
Presence detection

### BEHAVIORS



LED flashes



LED flashes quickly



LED flashes x times



LED flashes red-green



LED is off



|                    | 0   | 1               | 2              | 3              | 4               | 5     | 6      | 7      | 8          | 9             |            |
|--------------------|-----|-----------------|----------------|----------------|-----------------|-------|--------|--------|------------|---------------|------------|
| <b>BASIC</b>       |     |                 |                |                |                 |       |        |        |            |               |            |
| AIR: WIDTH         |     |                 |                |                |                 |       |        |        |            |               | see note 1 |
| AIR: OUTPUT        |     | DeEner/NO<br>NC | Energ/NC<br>NO | Energ/NC<br>NC | DeEner/NO<br>NO |       |        |        |            |               | see note 2 |
| TEST               | off | on              |                |                |                 |       |        |        |            |               | see note 3 |
| AIR: IMMUNITY      |     | normal          | enhanced       |                |                 |       |        | mode B |            |               |            |
| AIR: WIDTH         |     |                 |                |                |                 |       |        |        |            |               | see note 1 |
| AIR: NUMBER        |     | 1               | 2              |                |                 |       |        |        |            |               |            |
| AIR: PRESENCE TIME |     |                 | 30 s           | 1 min          | 2 min           | 5 min | 10 min | 20 min | 60 min     | infinte       |            |
| AIR: FREQ          |     | A               | B              |                |                 |       |        |        |            |               |            |
| AIR: OUTPUT        |     | DeEner/NO<br>NC | Energ/NC<br>NO | Energ/NC<br>NC | DeEner/NO<br>NO |       |        |        |            |               | see note 2 |
| TEST               | off | on              |                |                |                 |       |        |        |            |               | see note 3 |
| FACTORY RESET      |     |                 |                |                |                 |       |        |        | full reset | partial reset | see note 5 |

factory value

|                    |  |  |
|--------------------|--|--|
| <b>DIAGNOSTICS</b> |  |  |
| ZIP CODE           | all parameter settings in zipped format (see application note on ZIP CODE – 76.0024) |  |
| ID #               | unique ID-number   |  |
| CONFIG P/N         |  |  |
| SOFT P/N           |  |  |
| ERROR LOG          | last 10 errors + day indication  | POWERSUPPLY supply voltage at power connector                |
| AIR: SPOTVIEW      | view of spot(s) that trigger detection   | OPERATINGTIME power duration since first startup             |
| AIR: C1 ENERG      | signal amplitude received on curtain   | RESET LOG delete all saved errors                            |
| AIR: C2 ENERG      | signal amplitude received on curtain 2   | PASSWORD LCD and remote control password (0000= no password) |
|                    |  | ADMIN enter code to access admin mode                        |

|        |   |
|--------|---|
| Note 1 | Always use a screwdriver when making further AIR adjustments to the arrow position on the sensor.   |
| Note 2 | NO = normally open<br>NC = normally closed  |
| Note 3 | The sensor LED will briefly flash RED during monitoring communication with door control. This indicates that external monitoring is functional.<br><br>Monitoring functionality must be active on the sensor and door control, and monitoring wires must be properly connected to the door control. |
| Note 5 | partial: outputs are not reset  |



Download the BEA DECODER app for a quick overview of settings

# TECHNICAL SPECIFICATIONS

| Output                        | Relay 1   | Relay 2  |
|-------------------------------|---|--|
|                               | Electromechanical relay (potential and polarity free)<br>Max. contact current: 1 A<br>Max. contact voltage: 30 VAC<br>Adjustable hold time: 0.5 – 9 s | Solid-state relay (potential and polarity free)<br>Max. contact current: 100 mA<br>Max. contact voltage: 42 VDC / 30 VAC |
| <b>Test/Monitoring input:</b> | Sensitivity:<br>Low: < 1 V<br>High: > 10 V (max. 30 V)<br>Response time on test request: typical < 5 ms   |  |
| <b>Supply voltage:</b>        | 12 – 24 VAC ±10%<br>12 – 30 VDC ±10%<br>to be operated from SELV-compatible power supplies only   |  |
| <b>Mounting height:</b>       | 6'6" – 11'6"<br>local regulations may impact acceptable mounting height (pedestrian applications only)  |  |

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

## BEA, INC. INSTALLATION/SERVICE COMPLIANCE EXPECTATIONS

BEA, Inc., the sensor manufacturer, cannot be held responsible for incorrect installations or incorrect adjustments of the sensor/device; therefore, BEA, Inc. does not guarantee any use of the sensor/device outside of its intended purpose.

BEA, Inc. strongly recommends that installation and service technicians be AAADM-certified for pedestrian doors, IDA-certified for doors/gates, and factory-trained for the type of door/gate system.

Installers and service personnel are responsible for executing a risk assessment following each installation/service performed, ensuring that the sensor/device system performance is compliant with local, national, and international regulations, codes, and standards.

Once installation or service work is complete, a safety inspection of the door/gate shall be performed per the door/gate manufacturer's recommendations and/or per AAADM/ANSI/DASMA guidelines (where applicable) for best industry practices. Safety inspections must be performed during each service call – examples of these safety inspections can be found on an AAADM safety information label (e.g. ANSI/DASMA 102, ANSI/DASMA 107, UL294, UL325, and International Building Code).

Verify that all appropriate industry signage, warning labels, and placards are in place.



A Halma company

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