BEA IXIO-DT1 V Motion and Presence Sensor for Automatic Sliding Doors User Guide

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BEA IXIO-DT1 V Motion and Presence Sensor for Automatic Sliding Doors

Product Information

The IXIO-DT1 V is a motion and presence sensor designed for automatic sliding doors. It is intended to be mounted securely to avoid extreme vibrations and should not be covered. The sensor should be kept away from moving objects, light sources in the detection field, and highly reflective objects in the infrared field. The door control unit and header cover profile must be properly grounded. Only trained and qualified personnel are recommended for installation and setup of the sensor. After installation, it is important to test for proper operation before leaving the premises. Unauthorized repairs or attempts to repair by unauthorized personnel will void the warranty. The device complies with Part 15 of the FCC Rules, provided it is assembled according to the instructions.

Product Usage Instructions

Mounting & Wiring: Refer to Application Note 76.0035 if an IXIO Spacer is required for the given application. Connect the sensor using the supplied harness according to the following color code:

- Red: Power Supply
- Black: Power Supply
- Brown: Safety Input
- Blue: Safety Input Opening Input
- White (COM): Sensor Door Control
- Yellow (N.C): Opening Input
- Green (N.O.): Opening Input
- Purple: Test Output*

Radar Opening Impulse Field: Adjust the angle, width, tilt, and rotation of the field as needed. Activate the visible spots and always verify the actual detection field width by walk-testing according to ANSI 156.10.

Infrared Safety Field: Adjust the angle and width of the field. Choose between wide and narrow options for the LCD setting. Ensure that the actual detection field is properly set.

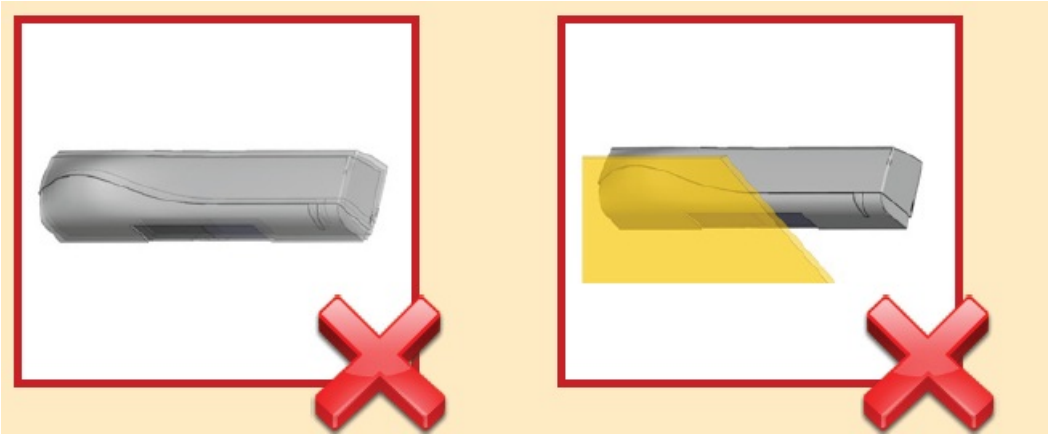
1. **Setup:** There are two setup options available:
    1. **Setup 1 (Quick):** Hold the knob for 2 seconds or use the remote control buttons as specified.
    2. **Setup 2 (Assisted):** Perform a test of the full door cycle and hold the knob for 4 seconds or use the remote control buttons as specified.

Test Proper Operation: It is important to test the proper operation of the installation before leaving the premises. Verify motion and presence detection using the LEDsignals and behaviors described in the user manual.

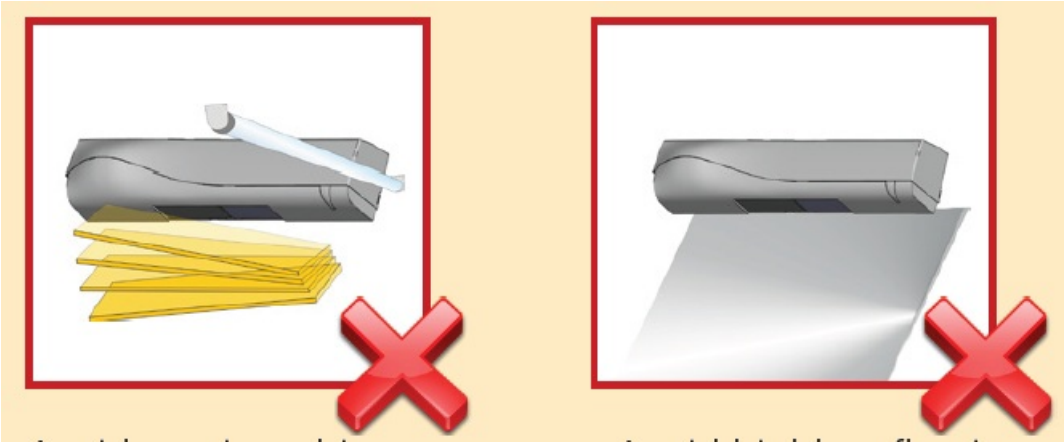
Note: *Test Output refers to the purple wire mentioned in the wiring instructions.*

READ BEFORE BEGINNING INSTALLATION & SETUP

- The sensor should be mounted securely to avoid extreme vibrations.
- Do not cover the sensor.

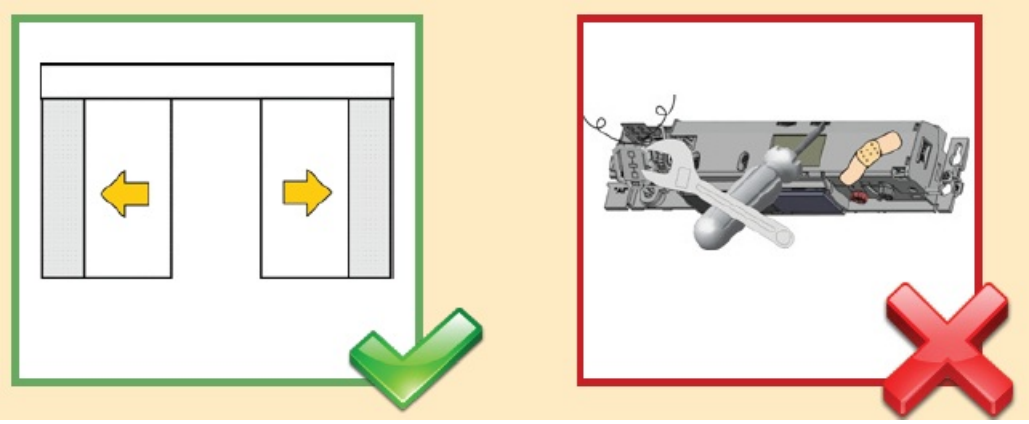


- Avoid moving objects and light sources in the detection field.
- Avoid highly reflective objects in the infrared field.



- 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.

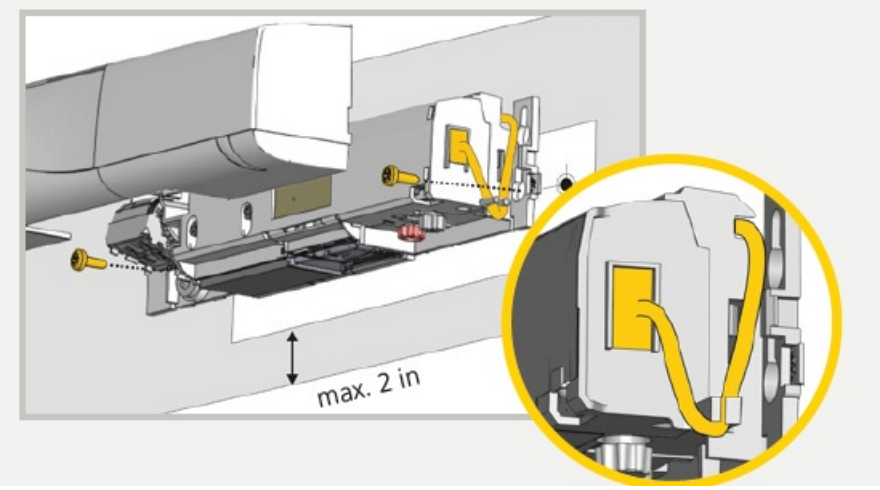
- Following installation, always test for proper operation (according to ANSI 156.10) before leaving the premises.
- The warranty is invalid if unauthorized repairs are made or attempted by unauthorized personnel.



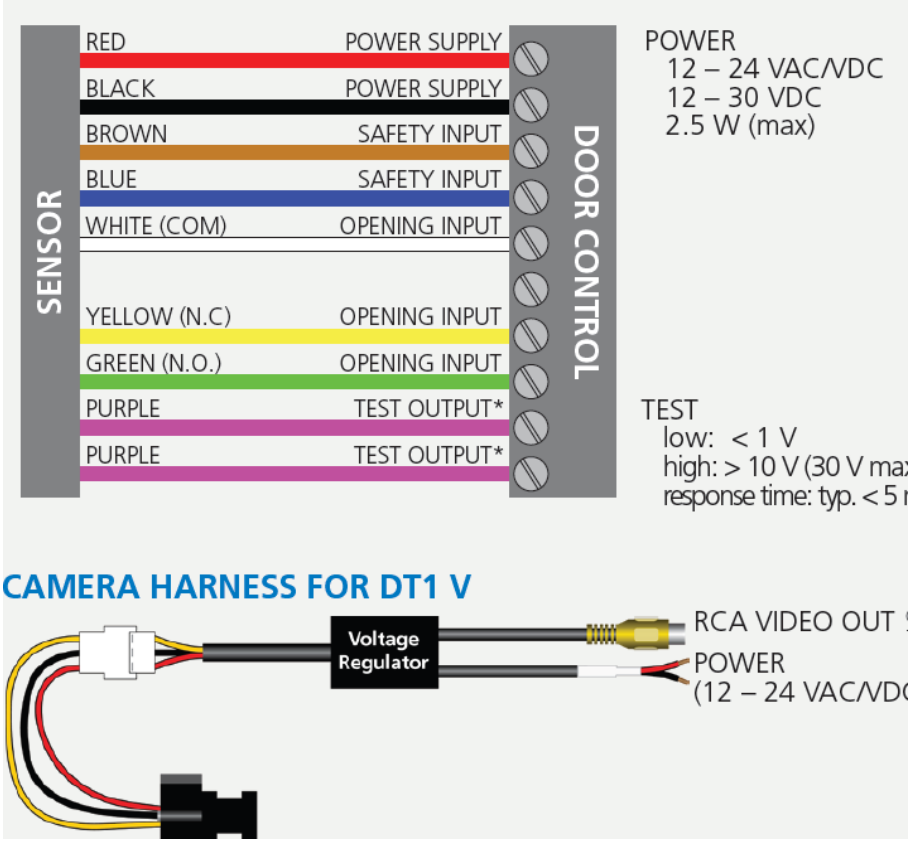
This device can be expected to comply with Part 15 of the FCC Rules, provided it is assembled in exact accordance with the instructions provided with this kit. Operation is subject to the following conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference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

MOUNTING & WIRING

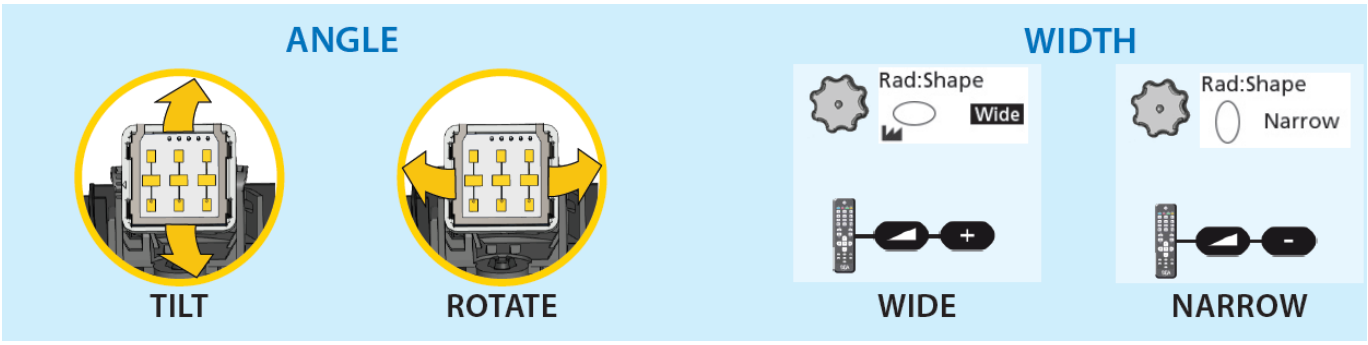
Refer to Application Note 76.0035 if an IXIO Spacer is required for the given application.



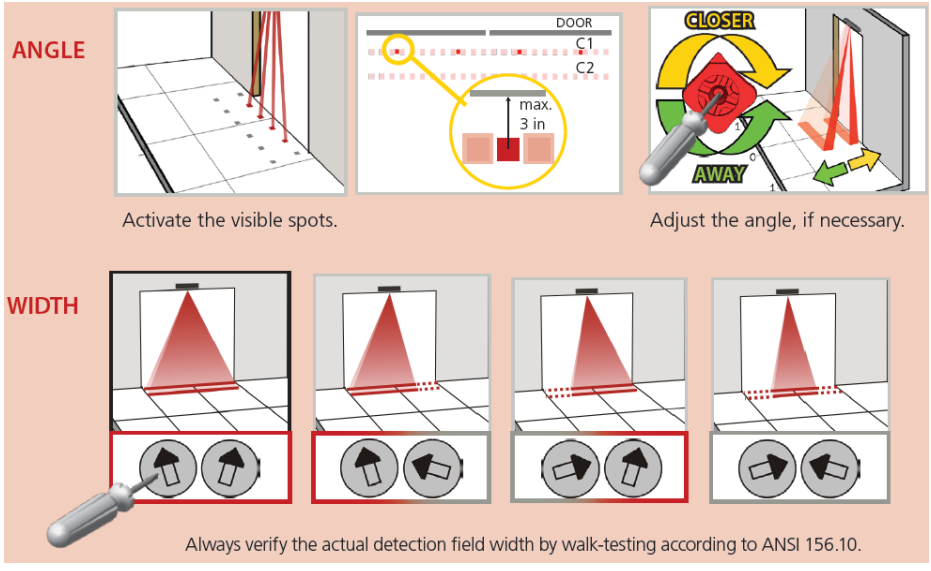
Sensor connectivity (power and relays) must utilize only the supplied harness. Sensor power and camera must be supplied from a Class 2 supply source limited to 15 W. Sensor is intended to be monitored for proper operation by the door operator or system. Harness shall be routed separated from any Mains 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.



RADAR OPENING IMPULSE FIELD

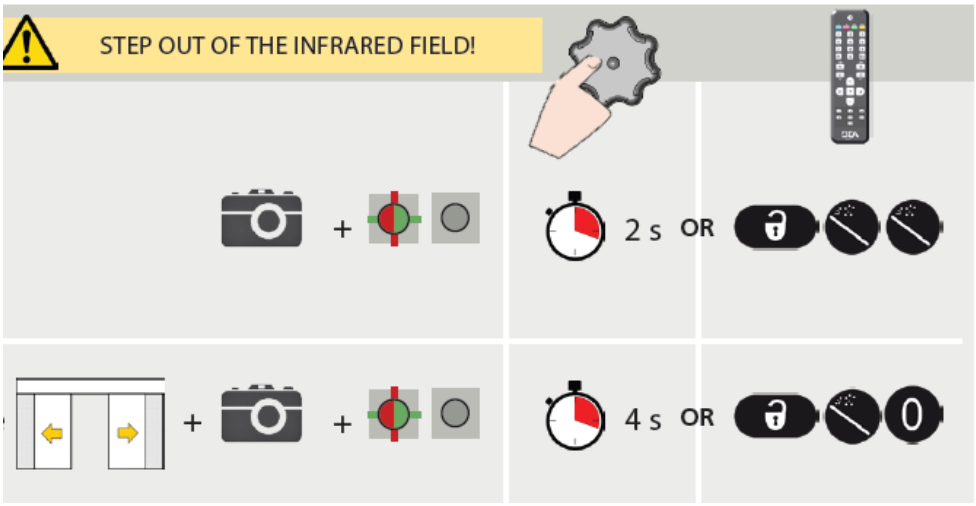


INFRARED SAFETY FIELD



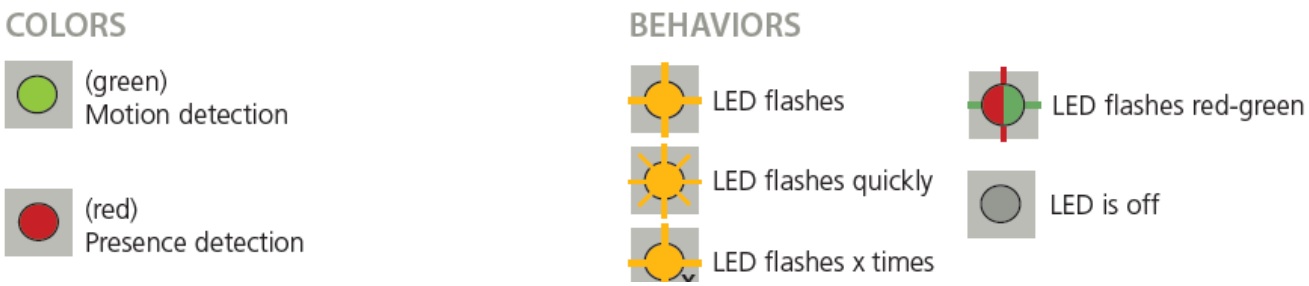
SETUP

- **SETUP 1** (QUICK) reference picture SETUP 2 (ASSISTED) either hold the knob for 4 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



OVERVIEW OF SETTINGS

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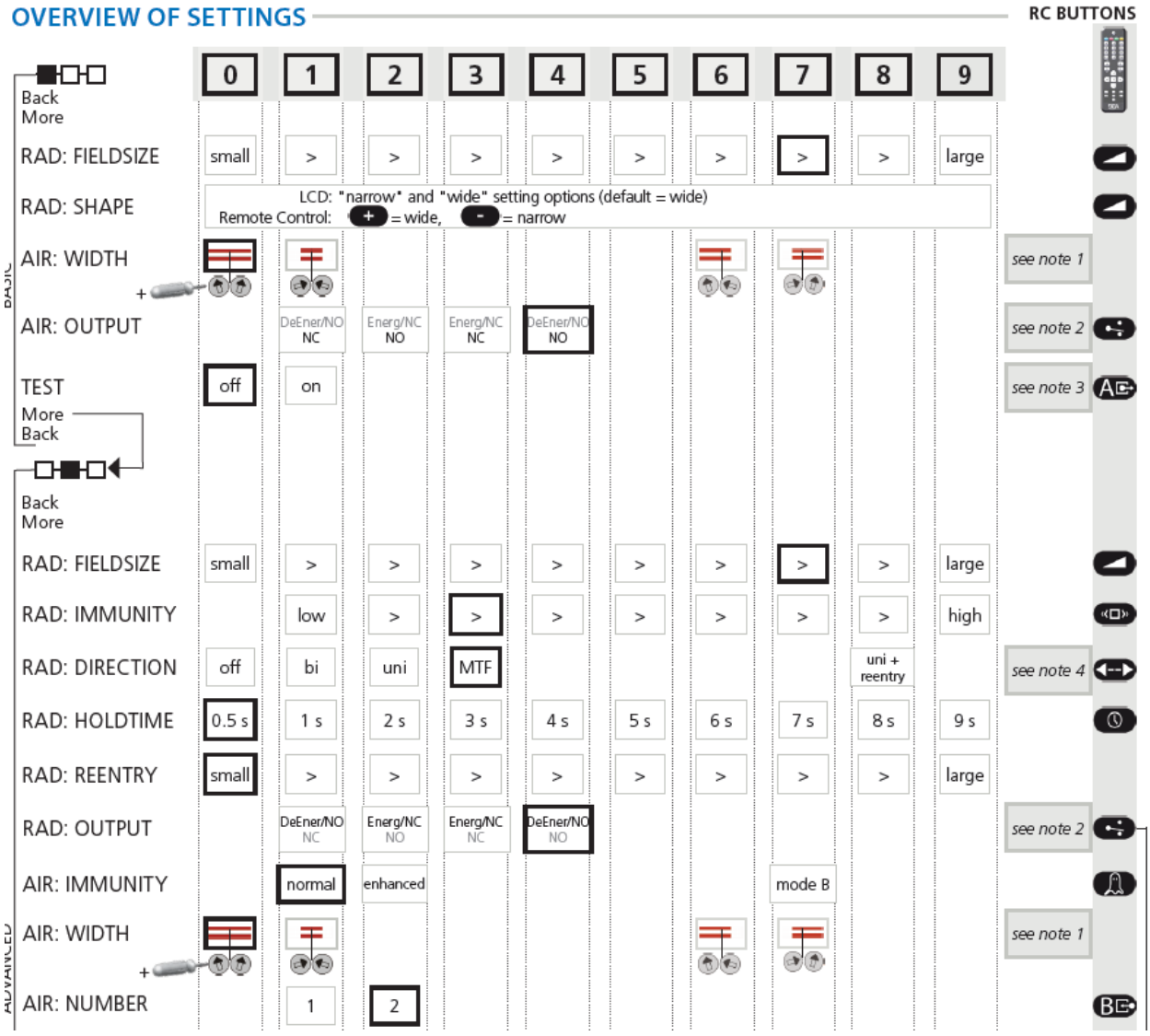
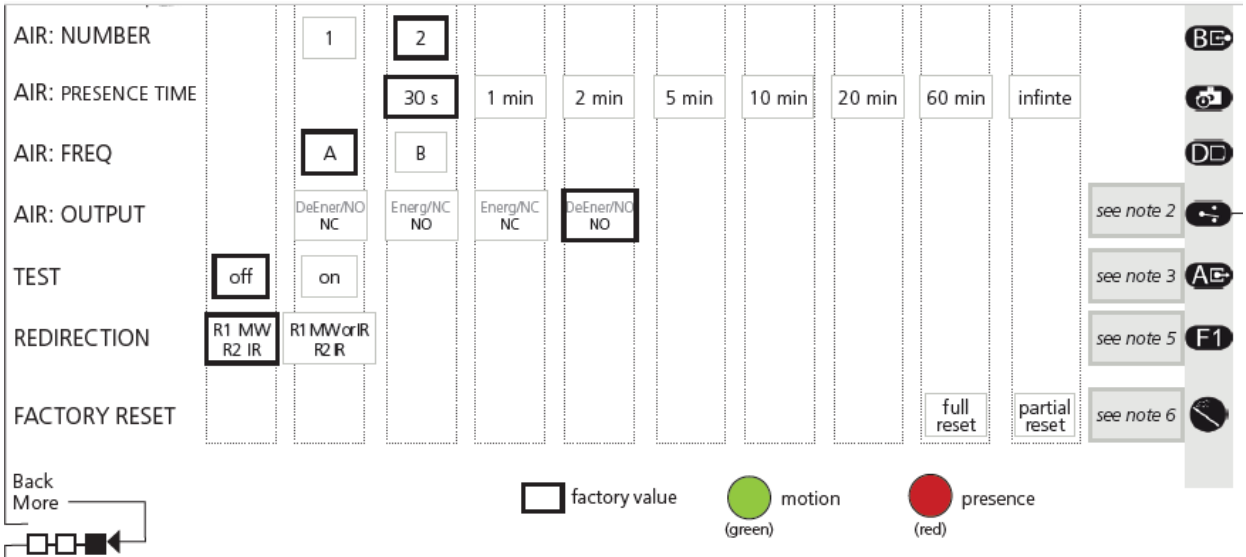




ZIP CODE	*all parameter settings in zipped format (see application note on ZIP CODE – 76.0024)*
ID #	*unique ID-number*
CONFIG P/N	
SOFT P/N	
ERROR LOG	*last 10 errors + day indication*
AIR: SPOTVIEW	*view of spot(s) that trigger detection*
AIR: C1 ENERG	*signal amplitude received on curtain*
AIR: C2 ENERG	*signal amplitude received on curtain 2*
POWERSUPPLY	*supply voltage at power connector*
OPERATINGTIME	*power duration since first startup*

Download the BEA DECODER app for a quick overview of settings

RESET LOG	*delete all saved errors*
PASSWORD	*LCD and remote control password (0000= no password)*
ADMIN	*enter code to access admin mode*

OVERVIEW OF SETTINGS (cont.)

Note 1	Always use a screwdriver when making further AIR adjustments to the arrow position on the sensor.	
Note 2	*RADAR*	*AIR*
	NO = normally open NC = normally closed DeEner = de-energized relay (active) Energ = en ergized relay (passive)	NO = normally open NC = normally closed
Note 3	The sensor LED will briefly flash RED during monitoring communication with door control. This indicat es that external monitoring is functional. Monitoring functionality must be active on the sensor and door control, and monitoring wires must be properly connected to the door control.	
Note 4	MTF = uni-directional with motion-tracking feature uni + reentry: BEA recommends only adjusting using the LCD	
Note 5	REDIRECTION setting (F1 on remote control):	
	R1-MW, R2-IR (f1=0): R1 = MW (i.e. motion detection) R2 = IR (i.e. pres ence detection)	**R1-MW or IR, R2-IR (F1=1):** R1 = MW or IR (i.e. motion or presence detection) R2 = IR (i.e. presence detection)
Note 6	partial: outputs are not reset	

TECHNICAL SPECIFICATIONS

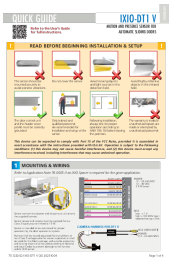
Output:	Relay 1	Relay 2
	Electromechanical relay (potential and polarity free) Max. contact current: 1 A Max. contact voltage: 30 VAC Adjustable hold time: 0.5 – 9 s	Solid-state relay (potential and polarity free) Max. contact current: 100 mA Max. contact voltage: 42 VDC / 30 VAC
Test/Monitoring input:	Sensitivity: Low: < 1 V High: > 10 V (max. 30 V)	
Supply voltage:	12 – 24 VAC ±10% 12 – 30 VDC ±10% to be operated from SELV-compatible power supplies only	
Voltage regulator (camera harness):	6.6 – 36 VDC (±10%) 6 – 28 VAC (±10%)	
Mounting height:	6'6" – 11'6" local regulations may impact acceptable mounting height (pedestrian applications only)	

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-certifi ed for pedestrian doors, IDA-certifi ed 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.

Tech Support & Customer Service: 1-800-523-2462
General Tech Questions: techservices-us@BEAsensors.com | Tech Docs: www.BEAsensors.com

Documents / Resources

	BEA IXIO-DT1 V Motion and Presence Sensor for Automatic Sliding Doors [pdf] User Guide IXIO-DT1 V, IXIO-DT1 V Motion and Presence Sensor for Automatic Sliding Doors, Motion and Presence Sensor for Automatic Sliding Doors, Presence Sensor for Automatic Sliding Doors, Sensor for Automatic Sliding Doors, Automatic Sliding Doors

References

- Homepage | BEA Sensors