QUICK GUIDE

Refer to the User's Guide for full instructions.

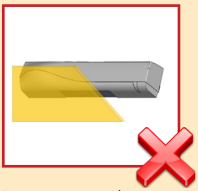
IXIO FAMILY

Activation and safety sensors for automatic sliding doors

ENGLISH

! READ BEFORE BEGINNING INSTALLATION & SETUP !

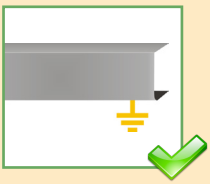
The sensor should be mounted securely to avoid extreme vibrations.



Do not cover the sensor.

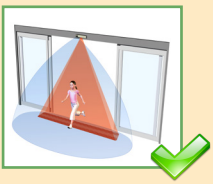
Avoid moving objects and light sources in the detection field.

Avoid highly reflective objects in the infrared field.

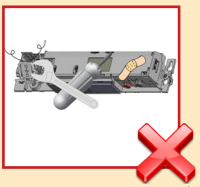


The door control unit and the header cover profile must be correctly grounded.

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.

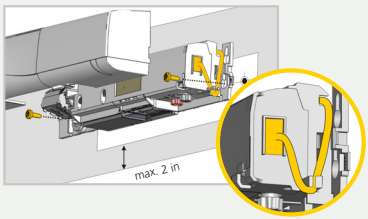


The warranty is invalid if unauthorized repairs are made or attempted by unauthorized personnel.

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.

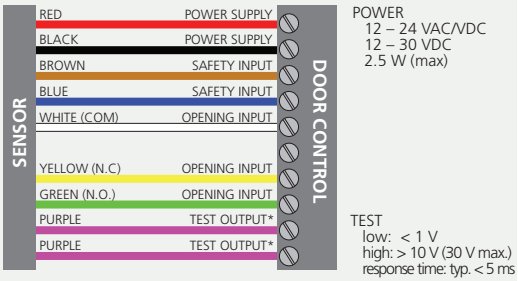


Sensor connectivity (power and relays) must utilize only the supplied harness.

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.

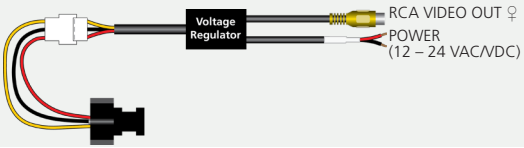
Harness shall be routed separated from any Mains or non-Class 2 voltage cable for correct operation or shall be rated for the Mains voltage, and suitable protection and routing means shall be used according to National and Local Codes to prevent damage to the harness and/or IXIO sensor.



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

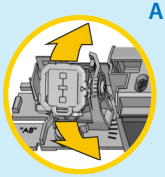
TEST
low: < 1 V
high: > 10 V (30 V max.)
response time: typ. < 5 ms

CAMERA HARNESS FOR DT1 V

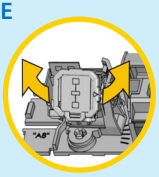


2 RADAR OPENING IMPULSE FIELD (*DT1 SENSORS ONLY*)

ANGLE

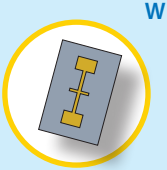


TILT

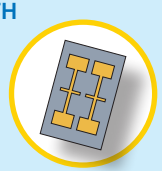


ROTATE

WIDTH



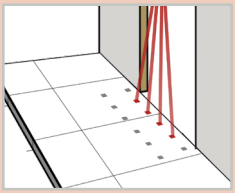
WIDE



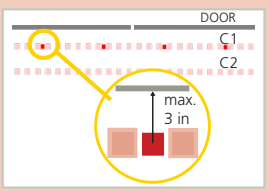
NARROW

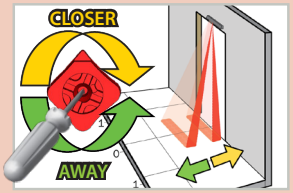
3 INFRARED SAFETY FIELD

ANGLE



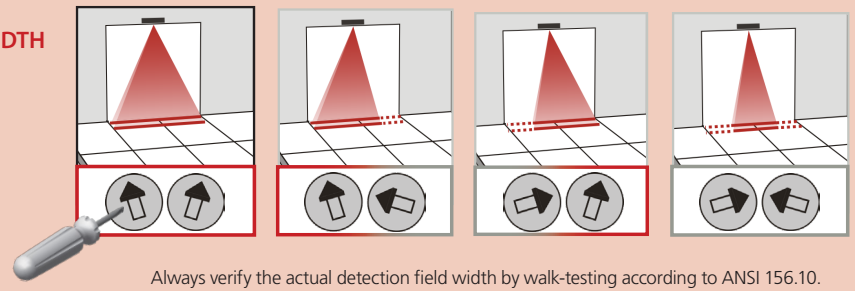
Activate the visible spots.





Adjust the angle, if necessary.

WIDTH



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

4 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)
Motion detection (DT1 sensors)
AUX (ST sensors)

(red)
Presence detection

BEHAVIORS

LED flashes

LED flashes quickly

LED flashes x times

LED flashes red-green

LED is off

BEA DECODER APP

factory value

OVERVIEW OF SETTINGS

highlighted blue = DT sensors only

highlighted red = ST sensors only

RC BUTTONS

	0	1	2	3	4	5	6	7	8	9	
Back / More											
BASIC											
RAD: FIELDSIZE	small	>	>	>	>	>	>	>	>	large	
AIR: WIDTH	+										see note 1
AIR: OUTPUT		DeEner/NO Energ/NC	Energ/NC DeEner/NO	Energ/NC DeEner/NO	DeEner/NO DeEner/NO						see note 2
TEST	off	on									see note 3
More / Back											
Back / More											
RAD: FIELDSIZE	small	>	>	>	>	>	>	>	>	large	
RAD: IMMUNITY		low	>	>	>	>	>	>	>	high	
RAD: DIRECTION	off	bi	uni	uni MTF	uni away						see note 4
RAD: HOLDTIME	0.5 s	1 s	2 s	3 s	4 s	5 s	6 s	7 s	8 s	9 s	
RAD: REENTRY	small	>	>	>	>	>	>	>	>	large	
RAD: OUTPUT		DeEner/NO Energ/NC	Energ/NC DeEner/NO	Energ/NC Energ/NC	DeEner/NO DeEner/NO						see note 2
AIR: IMMUNITY		normal	enhanced					mode B			
AIR: WIDTH	+										see note 1
ADVANCED											
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 Energ/NC	Energ/NC DeEner/NO	Energ/NC Energ/NC	DeEner/NO DeEner/NO						see note 2
TEST	off	on									see note 3
REDIRECTION	motion	motion **or** presence									see note 5
REDIRECTION	presence	aux + presence									see note 6
FACTORY RESET									full reset	partial reset	see note 7
Back / More											

DIAGNOSTICS

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*
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.)

NOTES	
Note 1	Always use a screwdriver when making further AIR adjustments to the arrow position on the sensor.
Note 2	DeEner: De-Energized relay Energ: Energized relay NO: normally open 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. 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: motion tracking feature
Note 5	opening output is active in case of: 0 motion detection 1 motion or presence detection
Note 6	0 presence detection on safety input 1 presence detection on safety + auxilary inputs
Note 7	partial: outputs are not reset

TECHNICAL SPECIFICATIONS

Supply voltage:	12 – 24 VAC ±10% 12 – 30 VDC ±10%	*to be operated from SELV-compatible power supplies only*
Voltage regulator (built into wire 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)*
Output:	**DT1 & ST SENSORS:** Electromechanical relay (potential and polarity free) Max. contact current: 1 A Max. contact voltage: 30 VDC Adjustable Holdtime: 0.5 – 9 s	**DT1 & ST SENSORS:** Solid-state relay (potential and polarity free) Max. contact current: 400 mA Max. contact voltage: 42 VAC / VDC Holdtime: 0.3 – 1 s
Test/Monitoring Input:	Sensitivity: Low: < 1 V High: > 10 V (max. 30 V) Response time on test request: typical < 5 ms	

BEA, INC. INSTALLATION/SERVICE COMPLIANCE EXPECTATIONS

BEA, Inc., the sensor manufacturer, cannot be held responsible for incorrect installations or inappropriate adjustments of the sensor/device; therefore, BEA, Inc. does not guarantee any use of the sensor 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 system installation 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 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).

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

AAADM ANSI DASMA DHI IDA

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General Tech Questions: techservices-us@BEAsensors.com | Tech Docs: www.BEAsensors.com