QUICK GUIDE

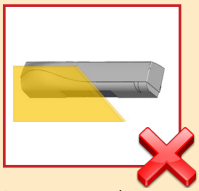
Refer to the User's Guide for full instructions.

IXIO-DT1

MOTION AND PRESENCE SENSOR FOR AUTOMATIC SLIDING DOORS

! READ BEFORE BEGINNING INSTALLATION & SETUP !

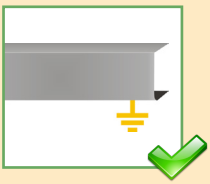
The sensor should be mounted securely to avoid extreme vibrations.



Do not cover the sensor.

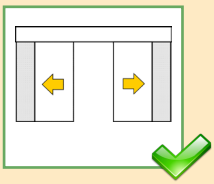
Avoid moving objects and light sources in the detection field.

Avoid highly reflective objects in the infrared field.

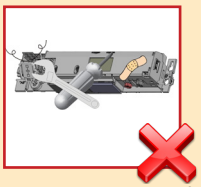


The door control unit and the header cover profile must be correctly grounded.

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.

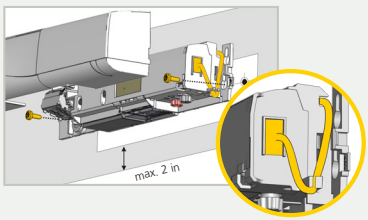


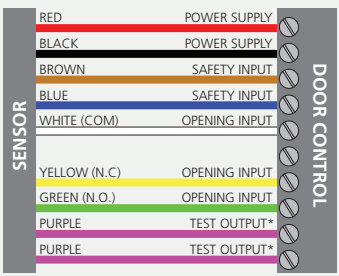
The warranty is invalid if unauthorized repairs are made or attempted by unauthorized personnel.

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.





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.

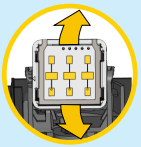
Sensor power must be supplied from a Class 2 supply source limited to 15 W.

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 RADAR OPENING IMPULSE FIELD

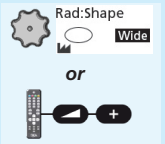
ANGLE



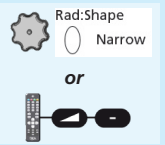
TILT

ROTATE

WIDTH



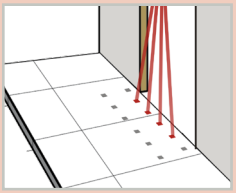
WIDE



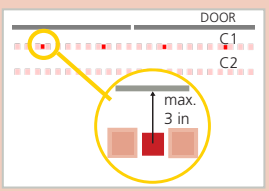
NARROW

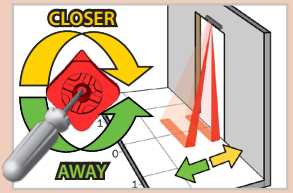
3 INFRARED SAFETY FIELD

ANGLE



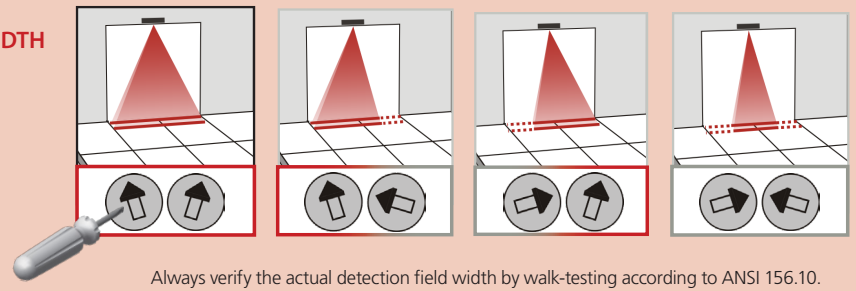
Activate the visible spots.





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

(red)
Presence detection

BEHAVIORS

LED flashes

LED flashes quickly

LED flashes x times

LED flashes red-green

LED is off

OVERVIEW OF SETTINGS

RC BUTTONS

	0	1	2	3	4	5	6	7	8	9	
Back / More											
BASIC											
RAD: FIELDSIZE	small	>	>	>	>	>	>	>	>	large	
RAD: SHAPE	LCD: "narrow" and "wide" setting options (default = wide) Remote Control: + = wide, - = narrow										
AIR: WIDTH +											see note 1
AIR: OUTPUT		DeEner/NO NC	Energ/NC NO	Energ/NC NC	DeEner/NO NO						see note 2
TEST	off	on									see note 3
More / Back											
Back / More											
ADVANCED											
RAD: FIELDSIZE	small	>	>	>	>	>	>	>	>	large	
RAD: IMMUNITY		low	>	>	>	>	>	>	>	high	
RAD: DIRECTION	off	bi	uni	MTF					uni + reentry		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 NC	Energ/NC NO	Energ/NC NC	DeEner/NO NO						see note 2
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 NC	Energ/NC NO	Energ/NC NC	DeEner/NO NO						see note 2
TEST	off	on									see note 3
REDIRECTION	R1 MW R2 IR	R1 MW or IR R2 IR									see note 5
FACTORY RESET									full reset	partial reset	see note 6
Back / More											

factory value — motion (green) — presence (red)

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*

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 = energized relay (passive)	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 = 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. presence 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) Response time on test request: typical < 5 ms	
Supply voltage:	12 – 24 VAC ±10% 12 – 30 VDC ±10% to be operated from SELV-compatible power supplies only	
Mounting height:	6'6" – 11'6" 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.

AAADM ANSI Member DASMA DHI Door Security + Safety Professionals IDA International Door Association

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