

# QUICK GUIDE

# IXIO FAMILY

Activation and safety sensors for automatic sliding doors

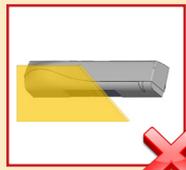


Refer to the User's Guide for full instructions.

## READ BEFORE BEGINNING INSTALLATION & SETUP



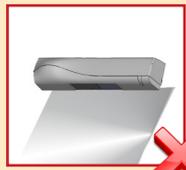
The sensor should be mounted securely to avoid extreme vibrations.



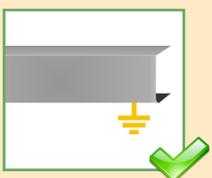
Do not cover the sensor.



Avoid moving objects and light sources in the detection field.



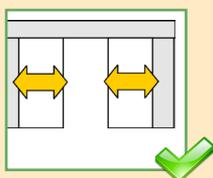
Avoid highly reflective objects in the infrared field.



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.



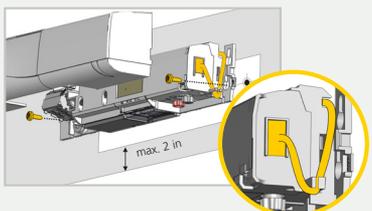
Following installation, always test for proper operation (according to ANSI 156.10) before leaving the premises.



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

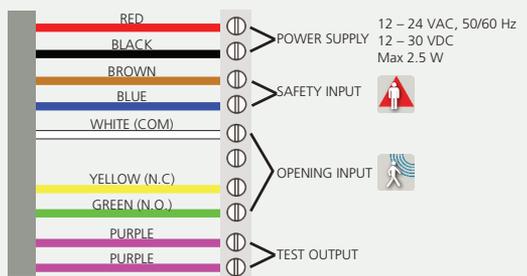


Sensor connectivity (power and relays) must utilize only the supplied harness.

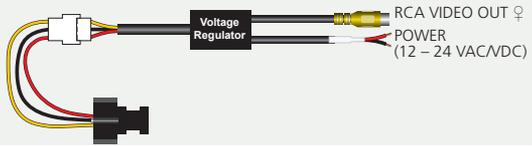
Sensor power must be supplied from a Class 2 supply source limited to 15 W.

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.

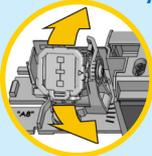


### CAMERA HARNESS FOR DT1 V

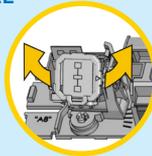


## 2 RADAR OPENING IMPULSE FIELD (DT1 SENSORS ONLY)

### ANGLE

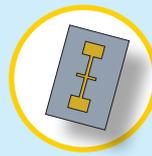


TILT

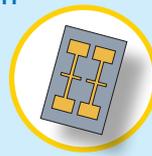


ROTATE

### WIDTH



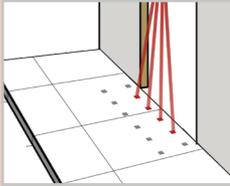
WIDE



NARROW

## 3 INFRARED SAFETY FIELD

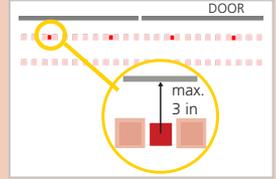
### ANGLE



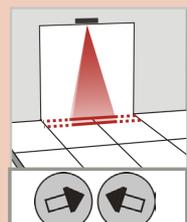
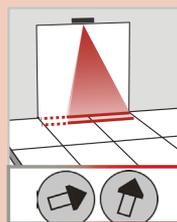
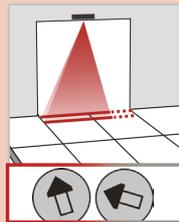
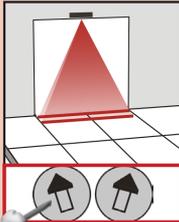
ACTIVATE CURTAINS



ADJUST ANGLE



### WIDTH



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

## 4 SETUP

### 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



(green)  
Motion detection (DT1 sensors) / AUX (ST sensors)



(red)  
Presence detection



LED flashes



LED flashes x times



LED flashes red-green



LED flashes quickly



LED is off



## OVERVIEW OF SETTINGS

highlighted blue = DT sensors only

highlighted red = ST sensors only



|                    | 0        | 1                        | 2                    | 3                    | 4                      | 5     | 6      | 7      | 8             | 9                |            |
|--------------------|----------|--------------------------|----------------------|----------------------|------------------------|-------|--------|--------|---------------|------------------|------------|
| Back More          |          |                          |                      |                      |                        |       |        |        |               |                  |            |
| <b>BASIC</b>       |          |                          |                      |                      |                        |       |        |        |               |                  |            |
| RAD: FIELD SIZE    | small    | >                        | >                    | >                    | >                      | >     | >      | >      | >             | large            |            |
| AIR: WIDTH         |          |                          |                      |                      |                        |       |        |        |               |                  | see note 1 |
| AIR: OUTPUT        |          | DeEner/NO<br>Ener/NC     | Ener/NC<br>DeEner/NO | Ener/NC<br>DeEner/NO | DeEner/NO<br>DeEner/NO |       |        |        |               |                  | see note 2 |
| TEST               | off      | on                       |                      |                      |                        |       |        |        |               |                  | see note 3 |
| More Back          |          |                          |                      |                      |                        |       |        |        |               |                  |            |
| Back More          |          |                          |                      |                      |                        |       |        |        |               |                  |            |
| RAD: FIELD SIZE    | small    | >                        | >                    | >                    | >                      | >     | >      | >      | >             | large            |            |
| RAD: IMMUNITY      |          | low                      | >                    | >                    | >                      | >     | >      | >      | >             | high             |            |
| RAD: DIRECTION     | off      | bi                       | uni                  | uni<br>MTF           | uni<br>away            |       |        |        |               |                  | see note 4 |
| RAD: HOLD TIME     | 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<br>Ener/NC     | Ener/NC<br>DeEner/NO | Ener/NC<br>DeEner/NO | DeEner/NO<br>DeEner/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        | infinite         | see note 5 |
| AIR: FREQ          |          | A                        | B                    |                      |                        |       |        |        |               |                  |            |
| AIR: OUTPUT        |          | DeEner/NO<br>Ener/NC     | Ener/NC<br>DeEner/NO | Ener/NC<br>DeEner/NO | DeEner/NO<br>DeEner/NO |       |        |        |               |                  | see note 2 |
| TEST               | off      | on                       |                      |                      |                        |       |        |        |               |                  | see note 3 |
| REDIRECTION        | motion   | motion<br>or<br>presence |                      |                      |                        |       |        |        |               |                  | see note 6 |
| REDIRECTION        | presence | aux<br>presence          |                      |                      |                        |       |        |        |               |                  | see note 7 |
| FACTORY RESET      |          |                          |                      |                      |                        |       |        |        | full<br>reset | partial<br>reset | see note 8 |

Back More



ZIP CODE ID #  
CONFIG P/N  
SOFT P/N  
ERROR LOG  
AIR: SPOTVIEW  
AIR: C1 ENERG  
AIR: C2 ENERG

all parameter settings in zipped format (see application note on ZIP CODE – 76.0024)  
unique ID-number

last 10 errors + day indication  
view of spot(s) that trigger detection  
signal amplitude received on curtain  
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 additionally adjust the arrow position on the sensor with a screwdriver.  |
| Note 2 | DeEner: De-Energized relay<br>Energ: Energized relay<br>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. Monitoring functionality must be active on the sensor and monitoring wires must be properly connected to the door control. |
| Note 4 | MTF: motion tracking feature   |
| Note 5 | min. value for DIN18650: 1 min<br>min. value for EN16005: 30 s   |
| Note 6 | opening output is active in case of:<br>0 motion detection<br>1 motion or presence detection   |
| Note 7 | 0 presence detection on safety input<br>1 presence detection on safety + auxiliary inputs  |
| Note 8 | 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: | <b>DT1 &amp; ST SENSORS:</b><br>Electromechanical relay<br>(potential and polarity free)<br>Max. contact current: 1 A<br>Max. contact voltage: 30 VDC<br>Adjustable Holdtime: 0.5 – 9 s | <b>DT1 &amp; ST SENSORS:</b><br>Solid-state relay<br>(potential and polarity free)<br>Max. contact current: 400 mA<br>Max. contact voltage: 42 VAC / VDC<br>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



Download the BEA DECODER app  
for a quick overview of settings



### BEA INSTALLATION/SERVICE COMPLIANCE EXPECTATIONS

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

BEA 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. ANSVDASMA 102, ANSI/DASMA 107).

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



BEA hereby declares that IXIO sensors are in conformity with the basic requirements and the other relevant provisions of the directives 1999/5/EC, 2006/95/EC and 2006/42/EC.

Notified Body for EC-type inspection: 0044 - TÜV NORD CERT GmbH, Langemarckstr. 20, D-45141 Essen

EC-type examination certificate number: 44 205 12 405836-001

Angleur, October 2014 – Pierre Gardier, authorized representative and responsible for technical documentation

The complete declaration of conformity is available on our website: [www.bea-pedestrian.be](http://www.bea-pedestrian.be)

Only for EC countries: According to the European Guideline 2012/19/EU for Waste Electrical and Electronic Equipment (WEEE)

