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.

CAMERA HARNESS FOR DT1 V

- RED (POWER SUPPLY) 12 – 24 VAC, 50/60 Hz
- BLACK
- BROWN
- BLUE
- WHITE (COM)
- YELLOW (N.C)
- GREEN (N.O.)
- PURPLE
- GREEN (N.O.)

RCA VIDEO OUT

(12 – 24 VAC/VDC)
2 RADAR OPENING IMPULSE FIELD (DT1 SENSORS ONLY)

- **ANGLE**
- **WIDTH**

TILT

ROTATE

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

**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

**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 is off
  - LED flashes red-green

**TEST THE PROPER OPERATION OF THE INSTALLATION BEFORE LEAVING THE PREMISES!**
OVERVIEW OF SETTINGS

RAD: FIELDSIZE
- small
- > > > > > > > large

AIR: WIDTH
- DelEnNo
- EnergNC
- DelEnNo
- EnergNC
- DelEnNo
- EnergNC

AIR: OUTPUT
- DelEnNo
- EnergNC
- DelEnNo
- EnergNC
- DelEnNo
- EnergNC

AIR: IMMUNITY
- normal
- enhanced

AIR: DIRECTION
- off
- bi
- uni
- uni
- uni
- away

AIR: WIDTH
- enhanced

AIR: NUMBER
- 1
- 2

AIR: PRESENCE TIME
- 30 s
- 1 min
- 2 min
- 5 min
- 10 min
- 20 min
- 60 min
- infinite

AIR: FREQ
- A
- B

AIR: OUTPUT
- DelEnNo
- EnergNC
- DelEnNo
- EnergNC
- DelEnNo
- EnergNC

RAD: FIELDSIZE
- small
- > > > > > > > large

RAD: IMMUNITY
- low
- > > > > > > > high

RAD: DIRECTION
- off
- bi
- uni
- uni
- uni
- away

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
- DelEnNo
- EnergNC
- DelEnNo
- EnergNC
- DelEnNo
- EnergNC

AIR: IMMUNITY
- normal
- enhanced

AIR: NUMBER
- 1
- 2

AIR: PRESENCE TIME
- 30 s
- 1 min
- 2 min
- 5 min
- 10 min
- 20 min
- 60 min
- infinite

AIR: FREQ
- A
- B

AIR: OUTPUT
- DelEnNo
- EnergNC
- DelEnNo
- EnergNC
- DelEnNo
- EnergNC

TEST
- off
- on

REDIRECTION
- motion
- motion or presence

REDIRECTION
- presence
- a.gx
- presence

FACTORY RESET
- full reset
- partial reset

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

ID #
- CONFIG P/N
- SOFT P/N

ERROR LOG
- 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
- power duration since first startup

OPERATINGTIME
- delete all saved errors

RESET LOG
- LCD and remote control password (0000 = no password)

PASSWORD
- enter code to access admin mode

ADMIN
- enter code to access admin mode

105.5961.03 IXIO FAMILY QG 20190916
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.

### 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

### NOTES

<table>
<thead>
<tr>
<th>Note</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>1</td>
<td>Always use a screwdriver when making further AIR adjustments to the arrow position on the sensor.</td>
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</tbody>
</table>
| 2    | DeEner: De-Energized relay  
Energ: Energized relay  
NO: normally open  
NC: normally closed |
| 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. |
| 4    | MTF: motion tracking feature |
| 5    | min. value for EN16005: 30 s |
| 6    | opening output is active in case of:  
0 motion detection  
1 motion or presence detection |
| 7    | 0 presence detection on safety input  
1 presence detection on safety + auxiliary inputs |
| 8    | partial: outputs are not reset |

BEA, INC. INSTALLATION/SERVICE COMPLIANCE EXPECTATIONS

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