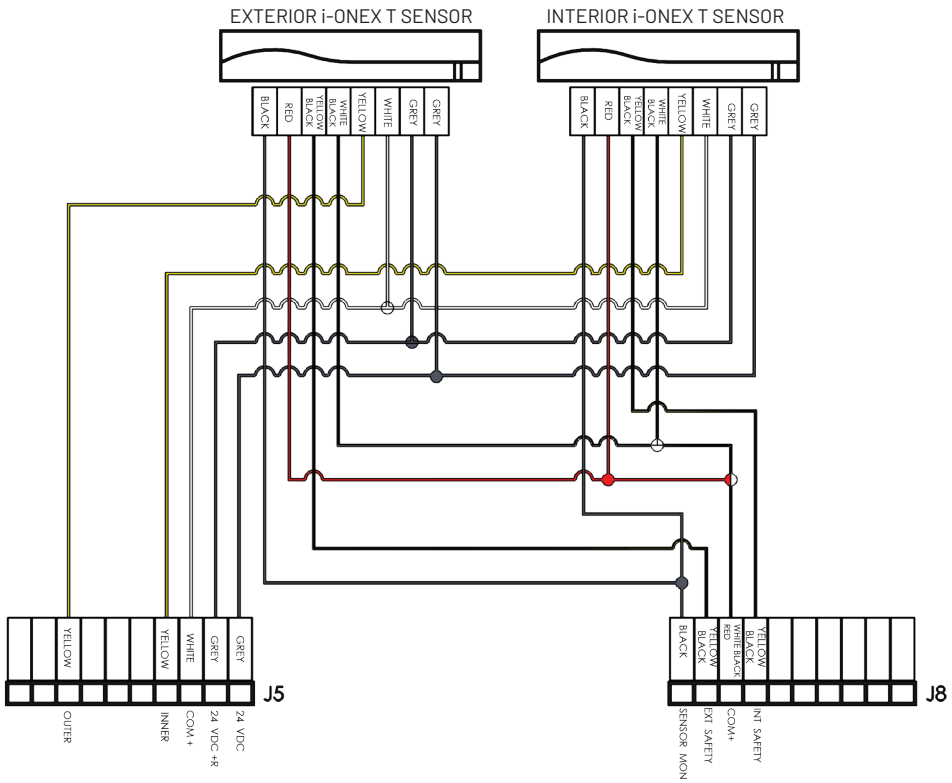
DC One Control With Sensor Monitoring

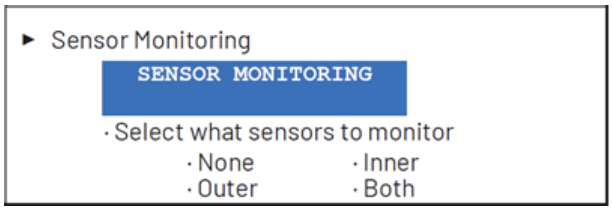
When utilizing sensor monitoring with the DC One control, there are setup features that are required to ensure the sensor is compliant with ANSI/BHMA A156.10 standard.

If utilizing Optex sensors, wire them as shown below.



Once the sensors have been wired to the control, per the wiring diagram above, the technician will need to turn on sensor monitoring in the DC One Control.

Enter "Program Mode" in the DC One Control, navigate to "Sensor Monitoring" using the UP and DOWN buttons, and use the parameter adjustment knob to select which sensors you want to monitor.



Once the control is programmed, you need to make the required adjustments to the Optex sensor.

- "Presence (Safety) output" dipswitch set to Normally Closed (NC)
- "Simultaneous output" dipswitch set to ON.

This will keep the presence relay closed to allow the monitoring circuit to be complete, while allowing the presence signal to be applied simultaneously through the activation circuit.

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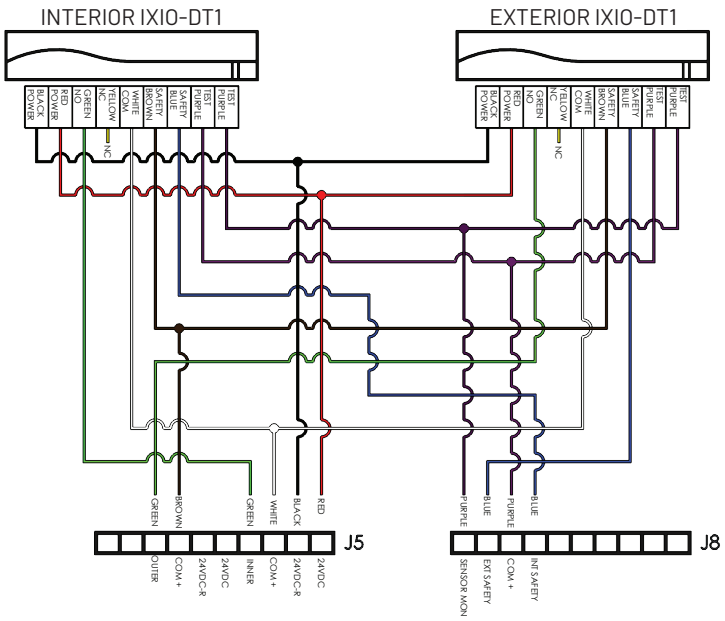
DC One Control With Sensor Monitoring Continued

If utilizing a BEA sensors, wire them as shown below.



Refer to the previous steps listed for an Optex sensor to ensure the DC One Control is programmed properly for sensor monitoring.

Once the control is programmed properly, a few additional adjustments need to be made to the BEA sensor.

- "AIR:Output" programmed to Normally Closed (NC),
- "Test" programmed to ON
- "Redirection" programmed to 1.

This will keep the presence relay closed to allow the monitoring circuit to be complete, while allowing the presence signal to be applied simultaneously through the activation circuit.

If you do not change the "Safety Output" to NC, the control will give you a monitoring error due to the monitoring circuit not being complete. If you do not change "Redirection" or "Simultaneous Output," the sensor will not provide a safety signal to the control.

Be sure to ALWAYS walk test the door to ensure it is compliant with ANSI/BHMA A156.10 standard.

Related Replacement Parts

Part Number	Description
DC-09-2094-04	DC One Control Only, Rev. 4, V3 Revision 1.32T
IXIO-DT1	Activation & Safety Sensor
ULTIMO	Microwave Motion/Presence Sensor
I-ONE-XT	Motion/Presence Sensor With Monitoring
X-ZONE-T	IR & Microwave Sensor With Monitoring