OPTEX
Sensing Innovation

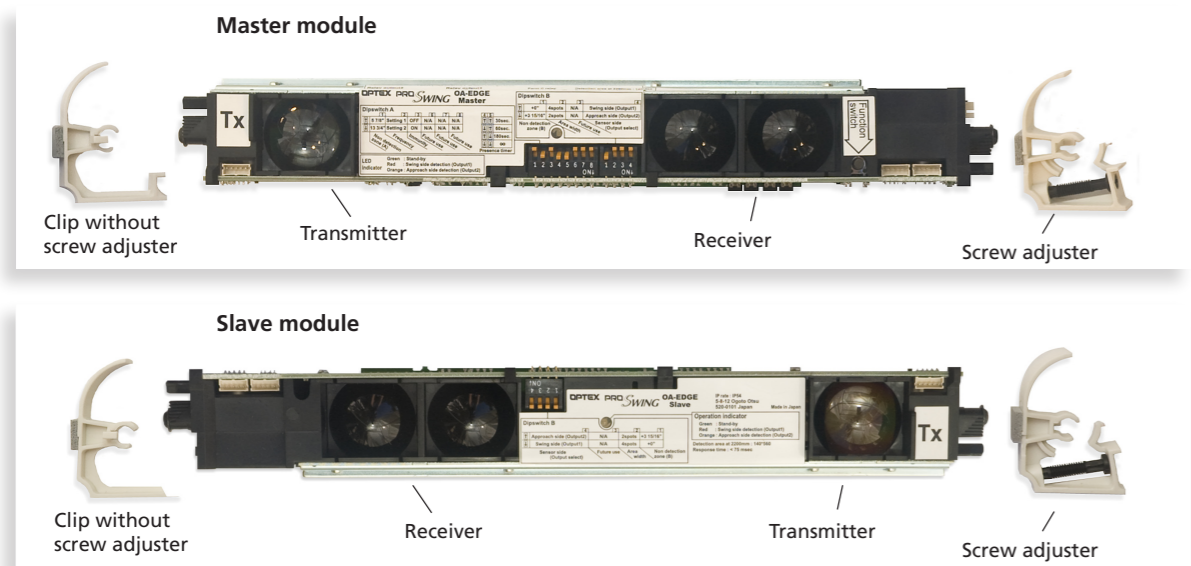## OA-Edge Quick Reference Guide

This guide is a supplement to the installation manual and when used will significantly help reduce installation time and/or issues. For questions or help please contact our technical support team at (800) 877-6656.

1 **Installing the modules**
Once the extrusion has been mounted to the door (refer to Manual: Installation, Step 1), install the modules using the mounting clips.

A Clip placement and Module arrangement

Master module

Clip without screw adjuster — Transmitter — Receiver — Screw adjuster

Slave module

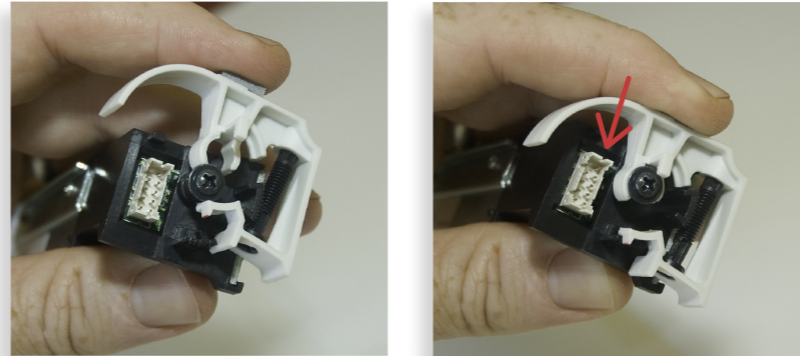Clip without screw adjuster — Receiver — Transmitter — Screw adjuster

The clip with the screw adjuster goes on the right and the clip without the screw adjuster goes on the left. The transmitter on the module (identified by the TX decal) goes towards the edge of the door panel with the receiver towards the center of the panel. (OA-Edge 1 Master goes toward Latch edge, OA-Edge 2 Master goes towards Pivot edge.)
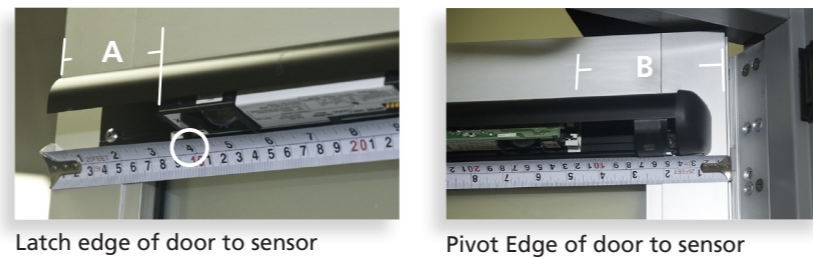

TX   RX
Master module
OA-Edge I

TX   RX   RX   TX
Slave module   Master module
OA-Edge II

B Attach the clips

Place the clips over the mounting post and then press downward to snap in place. NOTE: two extra clips per module have been provided.

C Determine module position

Determine module position in the housing according to the photos and chart below for your application.

Latch edge of door to sensor   Pivot Edge of door to sensor

Door width	OA-Edge I (Master only)	
36" to 48"	A Dimension = 4"*	
	OA-Edge II (Master and Slave)	
Door width	A Dimension	B Dimension
36"	4"	4"
42"	4"	6"
48"	4"	9"

For ANSI A156.10 applications you must walk-test the door using AAADM-recommended testing procedures.
Adjustments may need to be performed. If unsure contact OPTEX Technical Support.

∗ Note: For A156.10 Swing Side applications we recommend locating no further than 4" from latch edge of panel.
For secondary activation (NON A156.10) module can be located for desired detection area.

D Module installation

To install module, tilt the back of the module down and place front of clips in housing. Raise the back of the module into the housing until clips snap into place. CAUTION: see step E before repositioning.
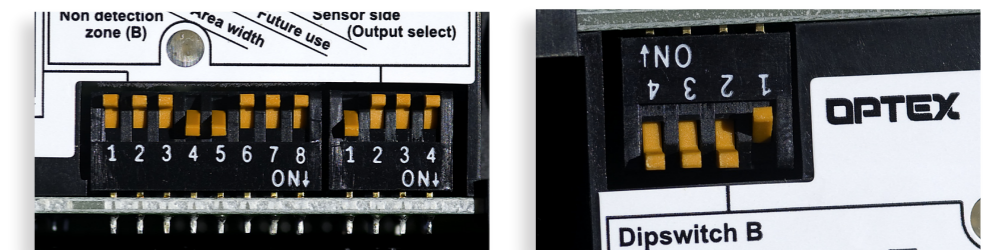

E Module repositioning

If you need to reposition the modules left or right, release the clips from the back and lower the back of the module while holding front of clips engaged in housing. Move the module to the desired position and raise and re-engage the back of the clips into the housing.
NOTE: moving the modules while fully engaged in housing will damage the foam blocks on the clips.

2 **Dipswitch Settings**
Note: A-dipswitches are found on Master modules only

A Select desired inactive area using dipswitch A1 (Master only) and B1 (Master and Slave). We recommend 9 13/16" setting (Master - A1 OFF and B1 ON, Slave - B1 ON). For other inactive area settings, refer to manual: Adjustments, Step 1-1.
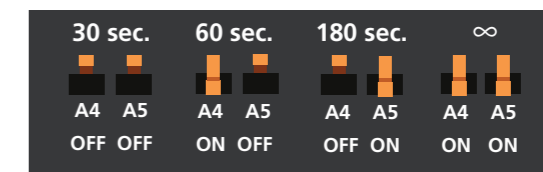

Settings for the inactive area, showing the recommended 9 13/16" setting: A1 OFF and B1 ON on the Master (left), and B1 ON on the Slave module (right photo).

B On simultaneous pairs or double egress, set A2 OFF on all modules of one door panel and A2 ON on all modules of the other door panel.

C Set A3 OFF.

D Set A4 and A5 to desired relearn time:

30 sec.	60 sec.	180 sec.	∞
A4 A5	A4 A5	A4 A5	A4 A5
OFF OFF	ON OFF	OFF ON	ON ON

Settings for the relearn time
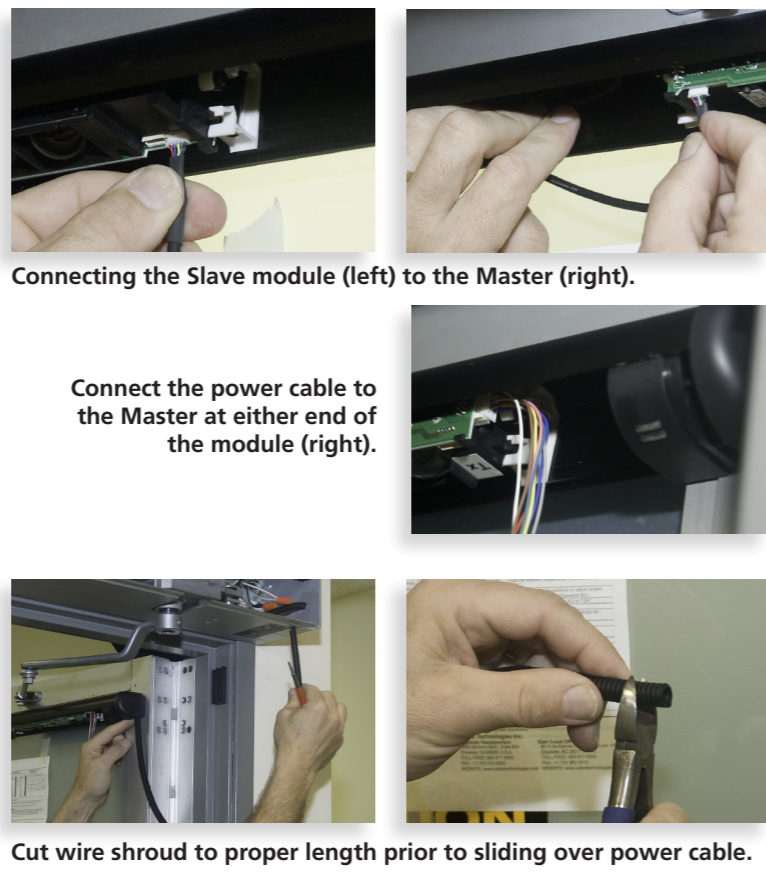
E Set A6 thru A8 OFF.

F Set B2 and B3 OFF.

G Set B4 according to which side of door sensor is mounted. OFF = Swing side safety, ON = Approach side reactivation.
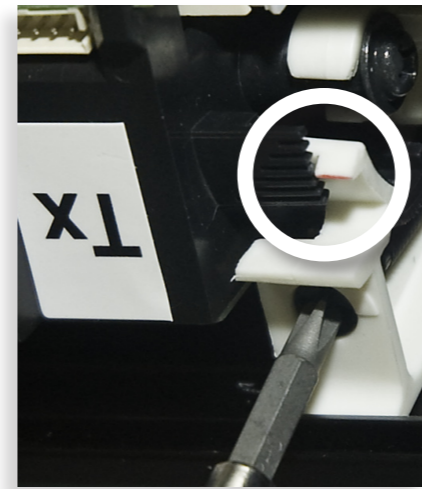
3 Wiring
Connect the communication cables to the modules, and the power supply cable to the door controller.

A Connect the communication cables for your particular application. There are three communication connectors on each module and any of them may be used.

B The power cable attaches to the Master module. There are two power cable connectors (one at each end of module) and either connector can be used. If your application includes two Master modules, the power cable only goes to one Master module.

Connecting the Slave module (left) to the Master (right).

Connect the power cable to the Master at either end of the module (right).

C Determine the desired length of the wire shroud and cut it to length prior to installing around the power cable. Slide the wire shroud over cable as shown in the photo before running the wires into the header (cover will not slide over the connector).

D Connect power harness wires to door control (refer to Manual, Installation Step 3).

E Insert LED module (see Manual, Installation Step 4).

Cut wire shroud to proper length prior to sliding over power cable.

4 Module Position and Angle

Set angle adjustments on modules slightly less than mid-point

Using the screw adjuster, set angle adjustment on modules to slightly less than the midpoint, using the red line for reference.

Note: this angle may need to be reduced or increased after initialization (see Step 6: troubleshooting).

5 Initialization
Perform initial setup with door at full closed position

A First step: Press and hold Function Switch for more than 2 seconds. This is required to recognize dipswitch settings and number of modules. Release function switch; sensor will flash several times and then flash yellow/red to indicate ready for next step (inactive area setup).

B Second step (Inactive area setup): After completing first step (sensor flashing yellow/red), press Function switch for less than 1 second. Sensor will flash several times and then display solid green (Standby).

C Once in Standby (solid green), sensor LED will change color when in detection (solid orange for approach side reactivation, solid red for swing side safety stall).

Pressing the function switch

LED Indicator

Status	Sensor module indicator
Standby	Solid green
Swing side detection (output 1)	Solid red
Approach side detection (output 2)	Solid orange
Incomplete initialization	Read and green blinking
Learning	Blinking yellow
Incomplete learning	Yellow and red bllinking
Saturation	Slow red blinking
Sensor failure	Fast red blinking
Communication error	Twice orange blinking

6 Troubleshooting
See the manual for additional solutions.

Ghosting/Reactivation On Closing Cycle:

Try the following steps in order:
1. Reduce the angle on the lead edge module by turning the adjustor CCW ¼ turn at a time until ghosting stops.
2. Increase the inactive area using dipswitches A1 and B1 (refer to chart in installation manual under Adjustments, step 1-1).
3. Reposition the lead edge module slightly towards the center of the door. Do not attempt to move the module when it is fully engaged in the extrusion or damage may occur to the foam blocks on the clips.
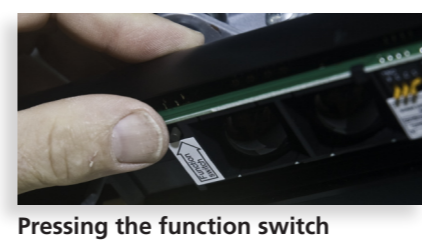
Will Not Complete Initialization:

Sensor Module LED yellow and red blinking:

1. One or more modules may be angled out too far. Reduce the angle by turning the adjuster CCW ¼ turn at a time and reattempt initial setup (See Step 4)
2. Floor surface has low reflectivity. Reduce the angle on one or more modules by turning the adjuster CCW ¼ turn at a time and reattempt initial setup (See Step 4).

Module LED slow blinking red:

IR Saturation. One or more modules are angled too close to door panel possibly seeing panic bar or other hardware. Increase angle of one or more modules by turning the adjuster CW ¼ turn at a time and reattempt initial setup (See Step 4).

Swing Side Sensor Detecting Wall or Guide Rail and Stalling Door:

May need to use cam switch or install magnetic reed switch to inhibit sensor output at approximately 70 degrees. Call OPTEX Technical Support to discuss possible options.

LED Indicates Detection But Door Does Not Respond:

1. Swing side no stall:
   a. Dipswitch B4 set improperly for output 1 (B4 OFF is correct).
   b. Improper wiring of output 1. Check and repair as needed.
2. Approach side no activation:
   a. Dipswitch B4 set improperly for output 2 (B4 On is correct).
   b. Improper wiring of output 2. Check and repair as needed.

OA-EDGE

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