

TRANS

MOUNTING INSTRUCTIONS

IR-TEC's TRANS sensor family is available with multiple mounting options with or without a mounting bracket. These mounting options allow the sensor to be integrated with lighting fixture or mounted on the ceiling in various ways.

Ceiling Surface S-mount with SMB-500

Front cover: $\text{Ø}110\text{mm}$ (4.33"), 38mm (1.5")

Mounting base: 66mm (2.6"), 90mm (3.54")

UL LISTED

- Screw nut, Front cover, Sensor unit

Assemble sensor unit with front cover, and tighten the screw nut with torque no higher than 0.3 lb-ft.
- Mount the base on the selection position and lead the wires through center hole for connection. Aim the marks and rotate the sensor in clockwise to click.
- To remove the sensor from base, insert a proper sized blade screwdriver into the slot, and rotate the sensor in counterclockwise to remove.

Junction Box C-mount with CMB-500

$\text{Ø}111\text{mm}$ (4.37")

86mm (3.38"), 66mm (2.6"), 80mm (3.15")

UL LISTED

- Remove the lens of PIR occupancy sensor, or the sensor cap of daylight sensor before assembly.

Assemble the sensor unit with the mounting base from DOWN side, and tighten the screw nut from the back with torque no higher than 0.3 lb-ft.
- min. 40mm (1.57")

min. $\text{Ø}51\text{mm}$ (2")

Mount the base on the junction box with screws.
- Place the front cover on the base, and mount the lens or sensor cap with the sensor.
- Junction Box

Ceiling Recess R-mount with RMB-500

$\text{Ø}90\text{mm}$ (3.54"), 42mm (1.65")

$\text{Ø}70\text{mm}$ (2.8")

Cut a 2.8" hole on the mounting position.

- Assemble the sensor unit with the RMB-500.
- Press the spring clips and insert into the hole.
- To remove the sensor, hold and pull downward from the hole.

RMB-500 Back Cover BC-500

$\text{Ø}64\text{mm}$ (2.52"), 70mm (2.76")

With RMB-500

The BC-500 is an optional back cover for RMB-500 with cable strain relief.

Fixture Integrated F-mount
IP-66 Fixture Integrated W-mount

Sensor assembly hole on the fixture

1

Sensor assembly

Rubber gasket (W-mount only)

40mm (1.57")

Assemble the sensor into the hole, and tighten the screw nut with torque no more than 0.3 lb-ft.

2

Note: For IP-66 fixture integration, ensure the rubber gasket is placed in between the fixture enclosure and sensor unit.

Light fixture

3

Fixture Internal I-mount with **IMB-500**
 (For HFD sensor only)

1

2

3

Light fixture

Click!

Fixture External E-mount with **EMB-500**
IP-66 Fixture External P-mount with **PMB-500**

EMB-500 & PMB-500

90mm (3.54")

46mm (1.8")

Ø111mm (4.37")

1

Plug (PMB-500 only)

Screw

Cover

Screw nut

Nut

Rubber gasket (PMB-500 only)

Sensor base

Sensor unit

Fixture integration via 1/2" knockout

Sensor with wire leads **Sensor with terminal block**

1 Assemble the sensor with fixture via the knockout hole

2

Light fixture

Ballast Driver

1 Remove the top cover and assemble the sensor with fixture via the knockout hole

2

Light fixture

2 Tighten the screw nut

Light fixture

2 Lead the wires through the hole and connect to the terminal block

Light fixture

3 Restore the top cover and tighten the screws. Seal the screw holes with rubber plugs

Light fixture

Note: For IP-66 fixture integration with PMB-500, ensure the rubber gasket is placed in between the fixture enclosure and sensor unit.

POLE MOUNT

Rubber Gasket

PMB-500

Removable cover

TRANS - Sensor

POLE

ACCESSORIES

Extension Mounting Adaptor EMA-500

38mm (1.5")

24mm (0.94")

125mm (4.92")

65mm (2.56")

The EMA-500 is an Extension Mounting Adaptor designed for the sensor with EMB-500 or PMB-500. It can be used to lower the mounting position of sensor to prevent the coverage of PIR based occupancy sensor being blocked by the fixture body or enclosure.

This is not a UL approved mounting option for line voltage sensor.

Assemble with EMB-500

1 Separate the adaptor

2

3 Click!

4

2

2

Light fixture

2

Light fixture

If the lighting fixture has a wider lower enclosure, use double screw nuts on the threaded nipple to prevent sensor being tilted.

Extension Joint EJ-30 & EJ-50

UL LISTED

30mm (1.18")

50mm (1.97")

With E/P - mount

The EJ-30 and EJ-50 are extension joints that can be used to horizontally extend the E/P mount TRANS sensor position for 30 and 50 mm. If longer extension is required, combine two joints for 60/80/100 mm. For outdoor use, order EJ-30F or EJ-50F.