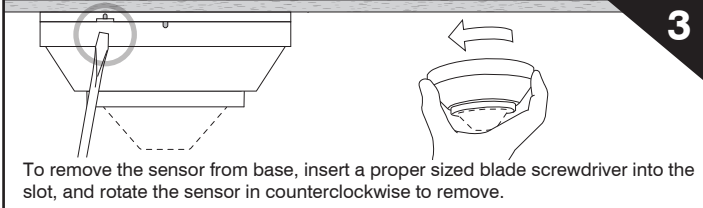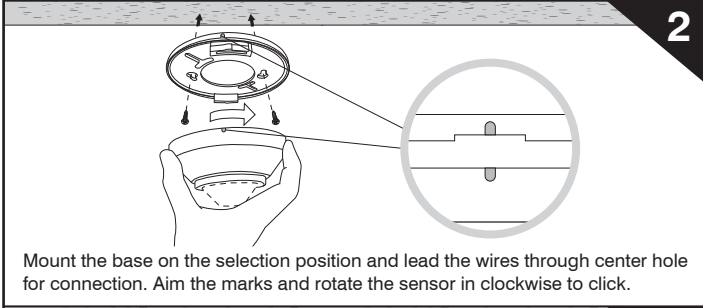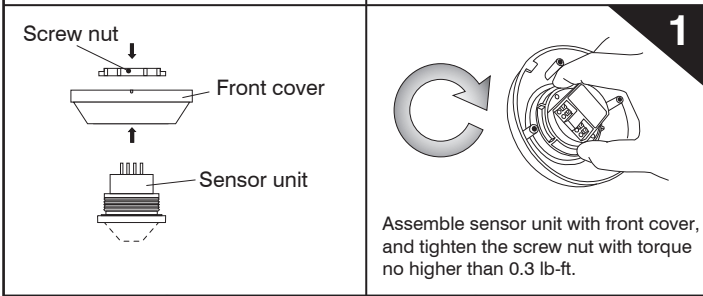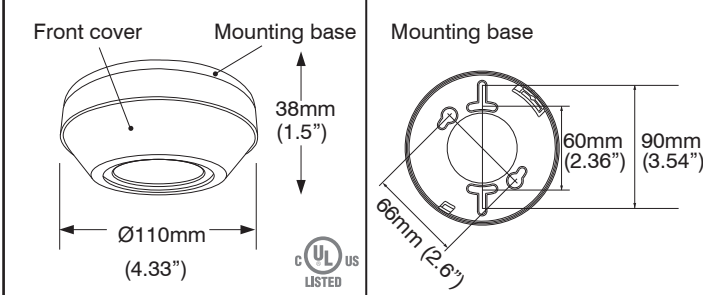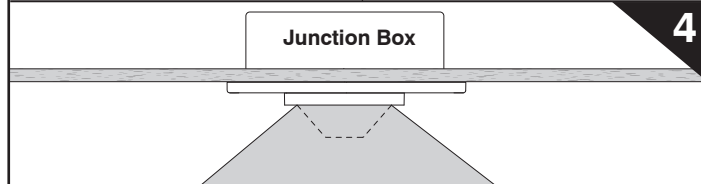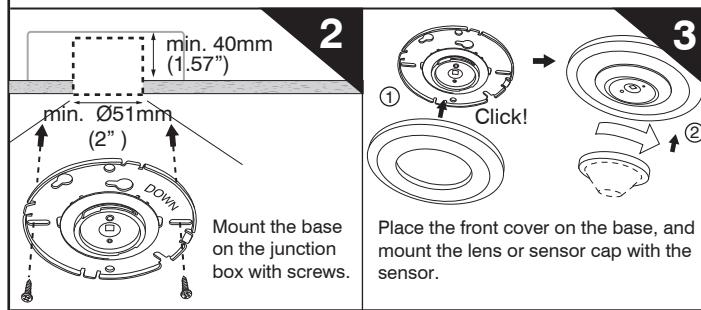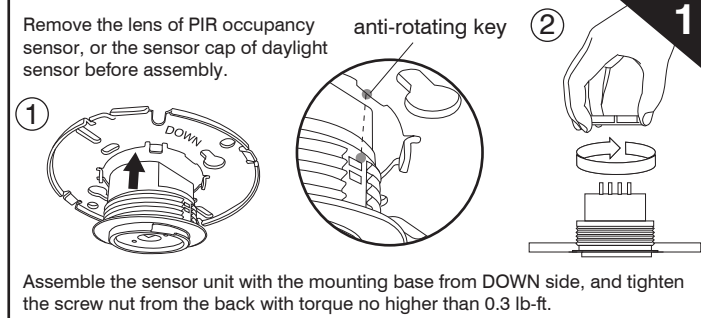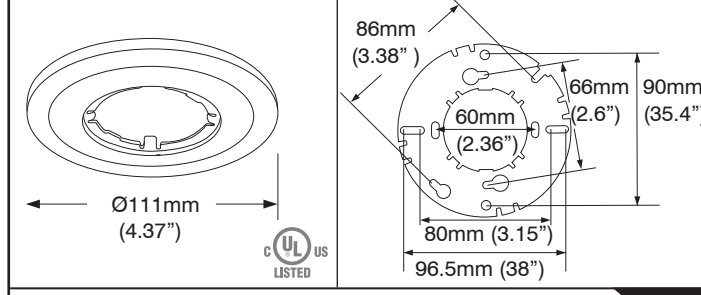# TRANS

MOUNTING INSTRUCTIONS

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.

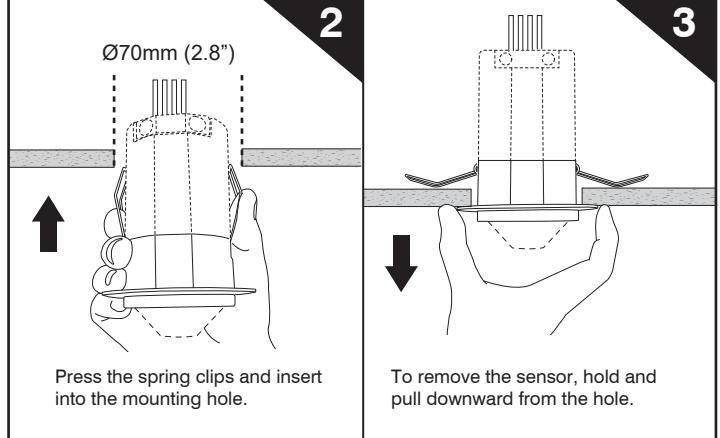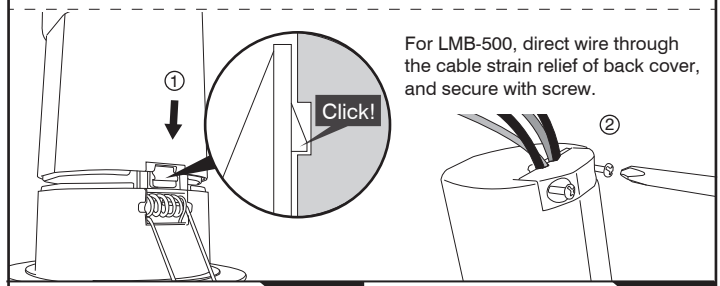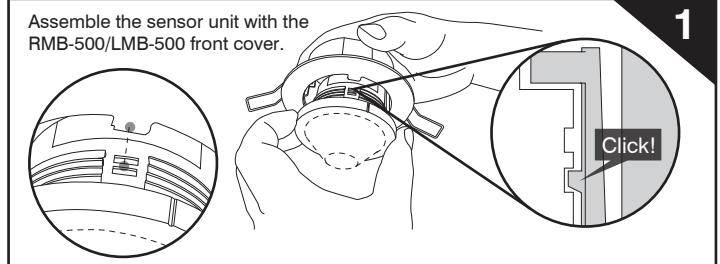**NOTE: F/E/S/C/R/L-mount is for indoor dry location use only.**

Ceiling Surface — S-mount with SMB-500

Front cover | Mounting base

Mounting base

38mm (1.5")
Ø110mm (4.33")
60mm (2.36")
90mm (3.54")
66mm (2.6")

c UL us LISTED

Screw nut
Front cover
Sensor unit

1

Assemble sensor unit with front cover, and tighten the screw nut with torque no higher than 0.3 lb-ft.

2

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.

3

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

86mm (3.38")
66mm (2.6")
90mm (35.4")
60mm (2.36")
Ø111mm (4.37")
80mm (3.15")
96.5mm (38")

c UL us LISTED

1

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

anti-rotating key

① DOWN
②

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.

2

min. 40mm (1.57")
min. Ø51mm (2")
DOWN

Mount the base on the junction box with screws.

3

① Click!
②

Place the front cover on the base, and mount the lens or sensor cap with the sensor.

4

Junction Box

Ceiling Recess — R-mount with RMB-500
Ceiling Recess — L-mount with LMB-500

Cut a 70mm (2.8") hole on the mounting position

Ø70mm (2.8")

Ø64mm (2.52")
Screw (LMB-500 only)
Back Cover (LMB-500 only)
100mm (3.9")
Front Cover
42mm (1.65")
Ø90mm (3.54")
Sensor unit

1

Assemble the sensor unit with the RMB-500/LMB-500 front cover.

Click!

①
Click!

For LMB-500, direct wire through the cable strain relief of back cover, and secure with screw.

②

2

Ø70mm (2.8")

Press the spring clips and insert into the mounting hole.

3

To remove the sensor, hold and pull downward from the hole.

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iR-TEC

Fixture Integrated — F-mount

IP-66 Fixture Integrated — W-mount

1

37mm (1.45")
Ø60mm (2.36")
c(UL)us LISTED

Sensor assembly hole on the fixture

0.7mm (0.027")
Ø51mm (2")
8.5mm (0.334")
anti-rotating key

2

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.

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

3

Light fixture

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

1

67mm(2.64")
2.3mm (0.91")
4.5mm (0.18")
50mm (1.97")
96mm(3.78")
81.5mm(3.21")

2

① ② Click!

3

Light fixture

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")
c(UL)us LISTED
Ø111mm (4.37")

Fixture integration via 1/2" knocknout

1

Plug (PMB-500 only)
Screw
Cover
Nut
Screw nut
Rubber gasket (PMB-500 only)
Sensor base
Sensor unit

Sensor with wire leads

2

① Assemble the sensor with fixture via the knockout hole

Light fixture
Ballast Driver

② Tighten the screw nut

Light fixture

Light fixture

Sensor with terminal block

2

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

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
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

① Separate the adaptor
③ Click!
②
④

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.

Light fixture

Light fixture

Extension Joint — EJ-30 / EJ-50 / EL-40

c(UL)us LISTED

a EJ-30 30mm(1.18")
b EJ-50 50mm(1.97")
c EL-40 40mm(1.57")

With E/P - mount

The EJ-30, EJ-50 and EL-40 are extension joints that can be used to extend the E/P mount sensor position for 30, 40 and 50 mm. Combine the joints if longer extention is required. For outdoor use, order EJ-30F, EJ-50F or EL-40F.