BAPI Non-Room Enclosure Styles

BAPI offers six enclosure styles for our non-room sensors. These enclosure include the BAPI-Box Crossover, Junction Box, the Weatherproof Enclosure (or “Bell Box”), and the BAPI-Box, BAPI-Box 2 and BAPI-Box 4.

**BAPI-Box Crossover**
The BAPI-Box Crossover is made of UV-resistant polycarbonate and carries an IP10 rating. It is IP44 with a pierceable knockout plug installed in the open port.

- **IP10**: Protected against solid foreign objects greater than 50mm diameter
- **IP44**: Protected against solid foreign objects greater than 1mm diameter and protected against splashing water.

**Junction Box**
The Junction Box is made of galvanized steel with an IP20 and NEMA 1 rating.

- **NEMA 1**: Constructed for indoor use to provide a degree of protection against falling dirt.
- **IP20**: Protected against solid objects greater than 12.5mm diameter

**BAPI-Box and BAPI-Box 2 Enclosures**
The BAPI-Box and BAPI-Box 2 are made of polycarbonate and carry an IP66 and NEMA 4 rating.

- **IP66**: Dust tight & protected against powerful water jets from any direction.
- **NEMA 4**: Constructed for indoor or outdoor use to provide a degree protection against falling dirt, rain, sleet, snow, windblown dust, splashing water, hose-directed water; and that will be undamaged by the external formation of ice.

**BAPI-Box 4 Enclosure**
The BAPI-Box 4 is made of nylon and plastic and carries an IP10 rating or IP44 with the Pierceable Knockout Plug installed. It is half the size of the BAPI-Box 2 with a hinged (but not gasketed) cover.

- **IP10**: Protected against solid foreign objects greater than 50mm diameter
- **IP44**: Protected against solid foreign objects greater than 1mm diameter and protected against splashing water.

**Weatherproof Enclosure (“Bell Box”)**
The Weatherproof Enclosure is made of cast aluminum and carries a NEMA 3R rating.

- **NEMA 3R**: Constructed for indoor or outdoor use to provide a degree of protection against falling dirt, rain, sleet, snow; and that will be undamaged by the external formation of ice.
- **IP24**: Protected against solid foreign objects greater than 12.5mm diameter, and protected against splashing water.

Note: The Weatherproof Enclosure is not watertight. If this enclosure will be subjected to driving rain, sprinkler systems or jets of water, then it may need a 3/16” weep hole drilled in the lowest horizontal face of the box.

Note: For more information about NEMA and IEC enclosure ratings see BAPI’s application notes **NEMA Enclosure Ratings** and **IEC Enclosure Ratings**.