

IQ Power™ HL Sensor Mounting Instructions

Location

Your IQ Power HL Sensor should be located as far away from ground references as possible. Where the sensor is paired with a static bar (CLFB mode) the sensor **MUST** be located downstream of the static bar. A cylindrical space of radius “R” between the sensor and the web should be kept free of ground references. Refer to your Instruction Manual for more details on installation and operation.

NOTICE – RISK OF EQUIPMENT DAMAGE

Avoid sharp blows to sensor.
Dropping sensor may cause damage to sensor element.

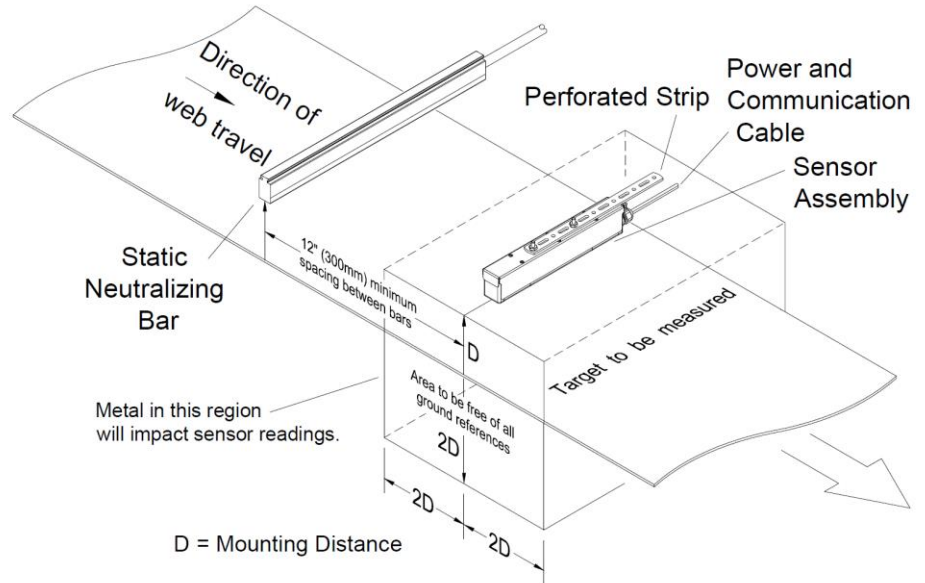
Operating Distance

The default mounting distance for the sensor is 4” (100mm). This distance allows measuring static voltages up to +/-30 kV. To measure greater voltages, the sensor must be mounted at a greater distance. To mount a new sensor at other than 4” (100mm), the Mounting Distance in the IQ Power Control Station will have to be adjusted for accurate measurements.

Installation

1. Ensure all power supplies are turned off.
2. Ensure that the mounting area is free of any highly static charged materials.
3. Two perforated strips and hardware are supplied with each IQ Power HL Sensor. Use the perforated strip to locate sensor. Perforated strips may be bent or twisted as necessary. The area behind sensor should be free as possible from grounded metal.
4. Tighten hardware securing perforated strip and sensor assembly.
5. Install ground jumper to ground stud and connect to machine frame ground.
6. Route power & communication cable to associated apparatus (barriers & interface) for connection.

Refer to Instruction Manual (5201252) and Control Drawing (5150010) for more details!



Perforated strips may be bent away from the sensor as necessary.

