

SMALL SENSORS for STRONG ELECTRO-MAGNETIC FIELDS

The Problem

To make accurate non-contact displacement measurements of very small components in strong electromagnetic fields.

The Sale

The customer purchased 2 sensors with 4 spare tips,

model D21-BC6ET7

- with 20 ft long fiberoptic cables having an in-line connector 3 Ft from the sensor tips.
- PVC over nylon wrap was used to cover most of the fiberoptics.
- Two tip designs were required: one right angle and one very short straight tip 0.1" long.
- The fiberoptics to the short straight tip were covered only with pvc to keep the size as small as possible.
- The right angle tip was formed using brass tubing (non-magnetic) and the tip collar was made from machinable plastic
- The electronics were built with a 10 KHz cutoff frequency

