ABSTRACT

An infrared sensor 20 is held in a housing 10 by a sensor holder 28 made of synthetic resin. A waveguide 30 for guiding infrared radiation, which is emitted from a target, to the infrared sensor 20 is supported by waveguide holders 31, 32 made of synthetic resin (or metal). An air layer (insulative layer, gap) 34 resides between an inner end (terminal end) 30b of the waveguide 30 and the infrared sensor 20. A probe 40 made of synthetic resin surrounding an externally protruding portion of the waveguide 30 is provided. An air layer (insulating layer, gap) 33 resides between the tip of the probe 40 and a tip (outer end) 30a of the waveguide 30. The tip of the waveguide 30 is covered by a cap 50.