

IR SENSOR

INFRARED FEED DETECTION SENSOR

New Features

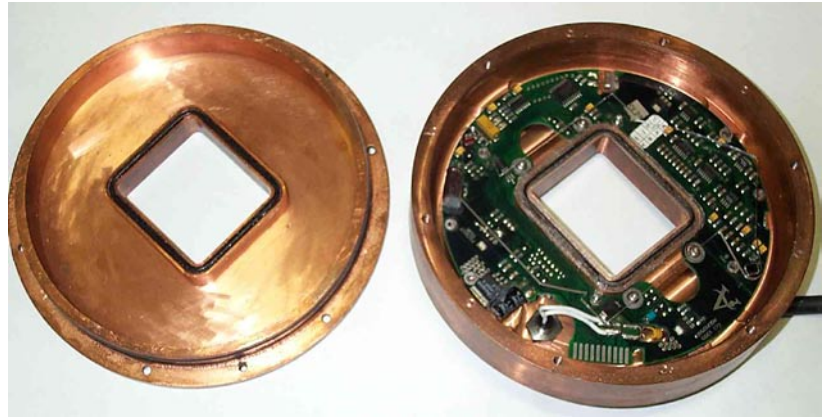
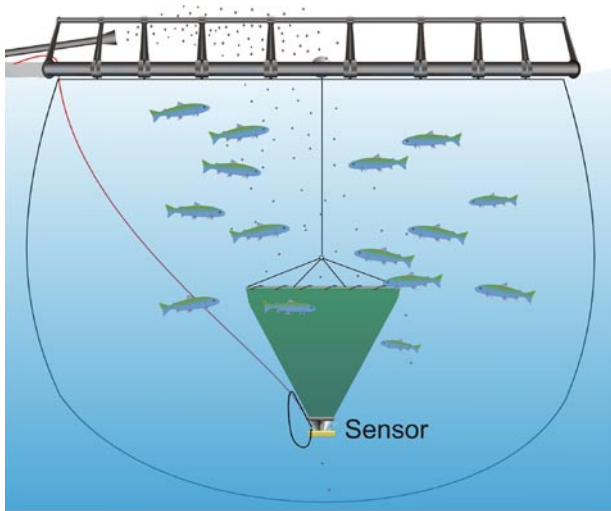
- Bronze or Delrin enclosure with a rugged two-part shell construction
- O-ring sealing system
- Hardwired cable with moisture barrier bulkhead fitting
- Single piece optical sensing system

Advantages

- Sensor constructed for longer term deployment
- Standardized detection performance to allow universal calibration
- Antifoulant properties of the bronze enclosure minimizes algal buildup and colonization by marine organisms, therefore reducing cleaning
- Ambient light exclusion for consistent operation in variable light
- Robust construction



Infrared Sensor



Processor controlled pellet detector utilising infrared single beam optics

Coupled with AQ1, AQ2, CAS1, or PS2 controllers, it can efficiently discriminate between uneaten pellets and other particles in the water column

Range of pellet sizes

- Detects a range of pellets from 1mm up to 25mm in difficult visibility conditions

Depth & Environment

- Suitable for pens/cages in both fresh and saltwater to depths exceeding 60m
- Temperature range from 0-45°C

Phosphor Bronze or Delrin enclosure

- The Delrin is a light weight unit with increased protection and durability
- The Phosphor Bronze offers a more rugged construction and intrinsic antifouling properties, minimizing the cleaning frequency as well as providing enough mass to maintain the cone shape without the requirement for any extra weight
- Both enclosures incorporate a redesigned aperture geometry that is rectangular throughout, minimizing growth of marine organisms and enabling easier cleaning
- The enclosures reduce ambient light interference to the infrared sensing circuitry, therefore improving reliability in variable light conditions

Cables & Connectors

- All sensors now come with a hardwired 30m cable, eliminating the need for the underwater mateable connector

Power source

- Generated from controlling unit (AQ1, AQ2, CAS1, PS2), low voltage (12VDC, quiescent current 120mA)



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