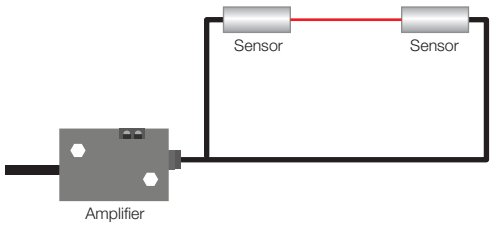
Remote Amplifier vs Self-Contained Through-beam Sensors

COMPARISON OF SEPARATELY AMPLIFIED AND SELF-CONTAINED SENSOR SOLUTIONS

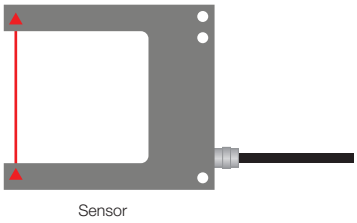
What is the difference between remotely amplified sensors and self-contained through-beam sensors?

What is it?

Remote amplifier	VS	Self-contained



The sensor's housing contains only the sensing elements. The electronics controlling the sensor are located remotely in a separate amplifier unit.



The sensor is controlled by electronics integrated into the same package as the sensor itself.

Benefits and Info

- Suitable where space is limited
- Suitable for harsh environments
- Configurable parameters and teach modes
- Flexible – sensor and/or amplifier can be substituted for other alternative
- Control sensor outside of sensing environment

- Installation is simple and easy
- Single part
- Setup and forget
- Lower cost
- No alignment necessary
- Multiple light sources

Gotchas

- Higher cost
- Learning curve
- More setup time
- More parts and supporting hardware

- Larger dimensions
- Limited parameter adjustments and teach modes
- Part orientation/mounting
- Shorter ranges, limited to housing