



## Threaded Miniature Photoelectric Sensor

The EX-30 series of photoelectric sensors offers a fresh new alternative to traditional fiber optic sensors. Unparalleled in its ease of installation, this sensor is highly effective for basic production line sensing.

### Simple Design

The design of this sensor has been simplified to offer a fully integrated solution in a package that only needs one anchor point. The sensing element is threaded to allow mounting through a 4 or 6mm size hole by utilizing a "nut and bolt" type screw mount. The sensing axis is the same as the center of the mounting hole, making placement on your assembly line incredibly easy.

The design also improves on the problems that currently plague traditional fiber optic sensors such as:

- **Difficulty finding a suitable place for the amplifier**
- **Fragile nature of fiber optics**
- **Extra space needed for bend radius of the fiber**
- **Need for protective tubing to protect the fiber**

By offering a built-in amplifier, no longer is there an issue of finding a location on your machine for an external amplifier. This feature also allows for the sensor cabling to be more robust and flexible, virtually eliminating any cable related issues during installation and usage.

The EX-30 is offered in thru-beam and diffuse reflective types both of which have available sensitivity adjustment built in. The thru-beam type has a long-range version that senses up to 800mm and the diffuse reflective type has a sensing distance of 50mm.

Model Name	Model Pic	Type	Output Operation	Output Configuration	Emitting Element	Max. Range (mm)	Max. Range (in)
Sort ▲ ▼		Sort ▲ ▼	Sort ▲ ▼	Sort ▲ ▼	Sort ▲ ▼	Sort ▲ ▼	Sort ▲ ▼
EX-31A		Thru-beam	Light-ON	NPN	Red LED	500	19.7
EX-31B		Thru-beam	Dark-ON	NPN	Red LED	500	19.7
EX-32A		Diffuse Reflective	Light-ON	NPN	Red LED	50	1.97
EX-32A-PN		Diffuse Reflective	Light-ON	PNP	Red LED	50	1.97
EX-32B		Diffuse Reflective	Dark-ON	NPN	Red LED	50	1.97
EX-33		Long Distance Thru-beam	Light-ON	NPN	Red LED	800	31.5