

## PHOTO-ELECTRIC SENSORS

The photoelectric sensor is a device with tremendous versatility and relatively low cost. Photoelectric sensors can detect objects more quickly and at further distances than that many competitive technologies. For these reasons, photoelectric sensors are quickly becoming one of the most popular forms of automatic sensing used in manufacturing.



FIGURE 68: PHOTOELECTRIC SENSORS

### Applications

Photoelectric sensors can provide solutions to a number of sensing situations. Some of the common uses for photoelectric sensors include:

**Material Handling.** A sensor can ensure that products move along a conveyor line in an orderly manner. The sensor will stop the operation if a jam occurs. And items can be counted as they move down the line.

**Packaging.** Sensors can verify that containers are filled properly, labeled properly and have tamper-proof seals in place.

**Machine operation.** Sensors can watch to verify that a machine is operating properly, materials are present and tooling is not broken.

**Paper Industry.** Sensors can detect web flaws, web splice, clear web and paper presence, while maintaining high web speeds.

### Design Flexibility

Photoelectric sensors offer design flexibility to handle many types of situations. There are a variety of ways the transmitter and receiver can be arranged to meet the needs of the application.