Proximity sensors

Proximity sensors are the most common and affordable solution for no-touch object detection. The most commonly-used proximity sensor is the inductive type, which generates an electromagnetic field to sense metal objects passing close to its face. This is usually the easiest sensing technology to apply in applications where the metal object to be detected is within an inch or two of the sensor face. Autonics offers 12 products of 6 different types of proximity sensors, inductive and capacitive, and maintains No. 1 market share in Korea for more than 10 years, and still endeavoring to advance product quality and sensing reliability up to the top level of global marketplace. If you are looking for the most cost effective and reliable proximity sensors, Autonics is the answer.

**PRODUCT LIST**

PRD Series
Long distance sensing proximity sensor

PR Series
Cylindrical type proximity sensor

PRA Series
Spatter-resistance type proximity sensor
AS Series
Long sensing distance type proximity sensor

CR Series
Electric capacitive type proximity sensor

PET18-5
Transmission coupler

PT Series
Junction Box

PRCM Series
Cylindrical connector type proximity sensor

PRW Series
Cylindrical cable outgoing connector type proximity sensor

PS/PSN Series
Rectangular type proximity sensor
Photoelectric Sensors

Photoelectric sensing uses a beam of light to detect the presence or absence of an object. This technology is an ideal alternative to inductive proximity sensors when the required sensing distances are longer or when the item to be sensed is non-metal. Autonics 4-kind general purpose photoelectric sensor products lines are designed with its advanced technology combined with the optic & electric technology, are widely selected in the various fields of industry for its optimized functions, quality, application flexibility and reliability while remaining strongly competitive with its price among the whole industry.

**PRODUCT LIST**

- **BJ Series**
  Compact and Long sensing distance/Micro spot type
- **BR Series**
  Cylindrical photoelectric sensors
- **BS5 Series**
  Micro photo sensor
- **BA2M Series**
  Small, diffuse reflective type with long sensing distance
BY Series

Small emitter/receiver synchronizing type

BYD Series

Small diffuse reflective and convergent reflective type photoelectric sensor

BPS Series

Slim photoelectric sensor for long sensing distance

BM Series

Small and light, common type photoelectric sensor

BMS Series

High speed response type with built-in output protection circuit

BX Series

Terminal type photoelectric sensor for long distance

**Area sensors (Picking sensors)**
The area sensor is the easy to use non-safety light screen for general purposes using multi light beams for the detection of the objects moving in the specified areas. Autonics area sensors, thin, small sized and compact design, offer more reliable sensing solutions equipped with long sensing distance, more advanced and various easy-to-use functions at the most reasonable price. Autonics picking sensors, kind of the area sensor products, is ideal for small part detection and assembly applications.

**PRODUCT LIST**

- **BW Series**
  - Area sensor
- **BWP Series**
  - Area sensor with plastic case
- **BWPK Series**
  - Picking sensor

**Door/Door side sensors**

Door/Door side sensors, generally applied for the automatic door management systems, are a kind of the photoelectric light beam sensors using infrared rays through specially designed lenses to detect the presence or absence of an object. Autonics ADS series provides ultra precise sensing
results for safer and more faithful door management systems.

**Fiber optic sensors**

Fiber Optic sensors, photo lens eliminated amplifier combined with fiber optic cable, are ideal where small objects detection and quick response time is required. Moreover, the high flexibility of the optic cable allows easy installation fitting almost anywhere. Autonics fiber optic sensing amplifiers and cables of real compact body offer sophisticated part detection, quick response time and generous sensing range.
BF4R Series
High reliability of fiber optic amplifier for convenient mounting

BF3R Series
High accuracy fiber optic amplifier with twin adjuster

FD/FT/GD/GT Series
Fiber optic cables

Rotary encoders

By converting shaft rotation into electronic pulses, encoders are used to electronically monitor the position of a rotating shaft. The encoder’s output pulses are counted and evaluated by a control unit to determine machine position and velocity, which provides exceptional accuracy and flexibility when controlling motion. The high mechanical and electronic operating speeds associated with optical encoders increase system speeds and accuracy, decrease cycle times, and boost overall productivity in the manufacturing environment. Autonics rotary encoders of various sizes and types offer high-quality and precise measuring of the operating position and speed of the rotating shaft, etc. for more precise control of the objects.
EPM50 Series

Absolute type multi-turn rotary encoders

E20S/E20HB Series

Diameter Ø20mm Shaft type/Hollow shaft built-in type Incremental Rotary encoder

E50S-C Series

Diameter Ø50mm Shaft type Incremental Rotary encoder

E58 Series

Diameter Ø58mm Shaft type/Hollow type/Built-in type Incremental Rotary encoder

EP58 Series

Diameter Ø58mm Shaft/Hollow Built-in type Absolute Rotary encoder

EP50S Series

Diameter Ø50mm Shaft type Absolute Rotary encoder

ENP Series

Diameter Ø60mm Shaft type Absolute Rotary encoder

E30S Series

Diameter Ø30mm Shaft type Incremental Rotary encoder

E40 Series

Diameter Ø40mm Shaft type/Hollow type/Built-in type Incremental Rotary encoder
E50S Series

Diameter Ø50mm Shaft type Incremental Rotary encoder

**Pressure sensors**

Pressure sensors are widely used in the air pressure mechanics for precise controlling of the equipment. Autonics high accuracy digital pressure sensors are available in 2 product types with 24 different options. Their compact sizes and optimized features offer the most precise control of air pressure systems and a variety of applications for various environments in the industry.

**PRODUCT LIST**

PSAN Series

Connector type digital pressure sensors

PSB Series

Small size, High accuracy pressure control digital pressure sensor

PSA Series

Small size, High accuracy pressure control digital pressure sensor