RB AUTOMATION

- Proximity
- Photoelectric
- Fiber Optic
- Gap
- Encoder

Object Detection

About Us

We are a team of Passionate people whose goal is to improve everyone's life, through Innovative systems. We build great system to solve your business problems. Our systems are designed for companies willing to optimize their performance.

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Our Other Products

Process Instrumentation

- Flow
- Pressure
- Level
- Temperature

Control System

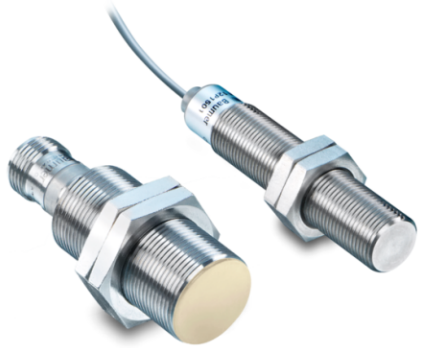
- PLC
- HMI
- Scada
- Servo
- Stepper
- Control Panel

INDUCTIVE PROXIMITY SENSOR

Inductive proximity sensors are the preferred choice for the majority of applications requiring accurate, non-contact detection of metallic objects in machinery or automation equipment.

At A Glance

- Housing made of Brass, stainless steel & plastic
- Reverse polarity protection
- LED indication
- Various Output : 2/3/4 wire, DC, AC, Namur & Analog 4-20 mA / 0 - 10 Vdc
- Power Supply : 10 -30 Vdc / 230 Vac

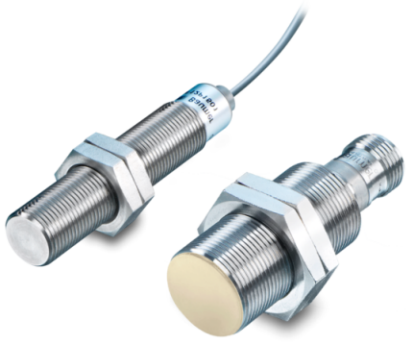


Technical Parameters

	M3	M4	M5	M6
Dimension	3 mm	4 mm	5 mm	6 mm
Sensing Distance	08....1mm	08....1.6mm	01....1.6mm	1.5....6mm
Switching Freq.	4 khz	5 khz	5 khz	5 khz
Output Signal	PNP / NPN			
Connection Type	Cable Connector			
Protective Class	IP 67			

Technical Parameters

	M8	M12	M18	M30
Dimension	8 mm	12 mm	18 mm	30 mm
Sensing Distance	1.5....6mm	02....10mm	05....15mm	10....24mm
Switching Freq.	3 khz	1.5 khz	500 hz	500 hz
Output Signal	PNP / NPN			
Connection Type	Cable Connector			
Protective Class	IP 67			



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CAPACITIVE PROXIMITY SENSOR

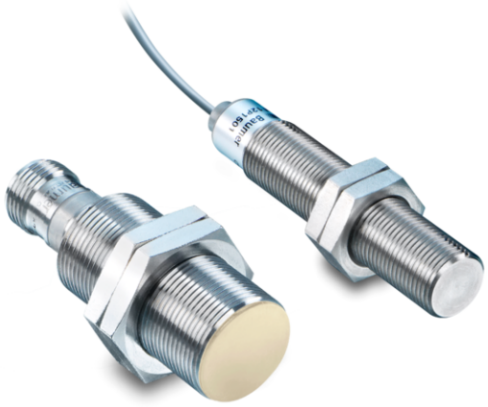
Capacitive proximity sensor are the preferred choice for the majority of applications requiring accurate, non-contact detection of Non-metallic objects in machinery or automation equipment.

At A Glance

- Housing made of Brass, stainless steel & plastic
- Reverse polarity protection
- LED Indication
- Various Output : 3 wire PNP/NPN / 2 wire AC/DC
- Power Supply : 10 -30 Vdc/230 Ac

Technical Parameters

	M30	M40	Rectangular
Dimension	18 mm	30 mm	25 x 52 x 6 (mm)
Sensing Distance	8 mm	15 mm	4 mm
Switching Freq.	50 Hz	50 Hz	35 Hz
Output Signal		PNP / NPN	
Connection Type		Cable Connector	
Protective Class		IP 67	



PHOTOELECTRIC SENSOR

Photoelectric sensor are the preferred choice for the majority of applications requiring accurate, non-contact detection of Non-metallic objects in machinery or automation equipment.

At A Glance

- Small precise light spot
- Advance teach in process
- LED indication
- Various types of Mounting
- Various Output : 3 wire PNP/NPN / 2 wire AC/DC
- Power Supply : 10 -30 Vdc/230 Ac

Application

- Presence & object detection
- Transparent Object detection
- Goods detection on conveyor
- Counting objects
- Factory automation

Main Features

- Infrared light & laser source
- Excellent price/performance ratio
- Teach in with potention meter

Technical Details

Principal	Diffuse	Retro Reflective	Through beam
Dimension	18 MM		
Sensing Distance	80/300/800 MM	3.5 M	13 M / 55 M
Output Function	Light On/Dark On		
Output Signal	PNP / NPN		
Connection Type	Cable Connector		
Protective Class	IP 67		

Technical Details

Principal	Diffuse	Retro Reflective	Through beam
Dimension	12.9 X 32.3 X 23		
Sensing Distance	300/500 MM	3.5 M	13 M / 55 M
Output Function	Light On/Dark On		
Output Signal	PNP / NPN		
Connection Type	Cable Connector		
Protective Class	IP 67		

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FIBER OPTIC SENSOR

Fiber Optic sensors combine optic fiber cables and amplifiers to provide accurate detection of small object in various application.

At A Glance

- Small precise light spot
- Dual led operating Panel
- Various types of Mounting in cable
- Various Output : 3 wire PNP/NPN

Application

- Small object detection
- Transparent Object detection
- Goods detection on conveyor
- Counting objects • Factory automation

Main Features

- Infrared light & laser source
- Teach in with potentio meter
- Light ON dark ON selectable

GAP / LABEL SENSOR

Using optical or ultrasonic technology according application, from opaque to transparencies labels included also transparency support.

At A Glance

- Gap or Label detection
- Optical & Ultrasonic technology
- Various Output : 4 wire PNP/NPN

Application

- Gap Or label detection
- Packaging
- Transparent label detection with Ultrasonic technology.

Main Features

- Infrared light source
- Excellent price/performance ratio
- Teach in with Button
- Light ON dark ON selectable

Technical Details

	Transparent	Non Transparent
Principal	Ultrasonic Tech.	Optical Tech.
Passage width	3 mm	
Passage depth	69 mm	40 mm
Electrical connection	M8 4 Pin Connector	
Max. passing speed of Oject	180 m/min	200 m/min

ROTARY ENCODER

Rotary encoder are used to provide accurate position measurement and speed feedback in many machine and control system. we are providing complete range of incremental and absolute encoder in solid and hollow shaft design for various application in automation industries.

At A Glance

- Robust construction provides extreme Shock & vibration resistance
- Precise measurement
- High degree of protection Up to IP69K
- Absolute encoders with industry protocols e.g. Profinet,Ethernet,Profibus,Canopen Analog.
- Encoder housing with anti corrosive CS painting

Application

- Distance measurement & speed Monitoring in motor feedback system
- Positioning in packaging industries
- Angle measurement

Technical Details

Type	Incremental / Absolute
Shaft. Type	Solid shaft / hollow shaft
Shaft Dia	6mm/8mm/10mm/15mm
PPR	100….10000
Power Supply	5 VDC / 8..30 VDC / 4.75…30 VDC
Output	TTL/RS422 or HTL/Pushpull
Electrical Connection	Radial & Axial cable / connector

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