



PROXIMITY SENSORS

INDUCTIVE

- For accurate, non-contact detection of metallic objects in machinery or automation equipment.
- Connection styles include M8, M12 or terminal connection models
- Approved for gas and dust Ex zones
- Protective class of up to IP68/ IP69k (submersible/ high pressure water jet resistant)
- Weld resistant designs with PTFE-coated surface

CAPACITIVE

- For detection of metal objects and nearly all other materials.
- Used in applications including level, flow control for detection of liquids, grains and powders.
- Sensor outputs of 3-wire DC and NAMUR output types
- Models with hazardous area approvals

MAGNETIC

- Consists of the M12 housing style for magnetic detection applications.
- Also offers a non-contact, piston detection sensor for use with steel hydraulic cylinders.
- Reliable piston magnet detection and easily mounted, without the need for mounting slots or holes in the cylinder

PHOTOELECTRIC SENSORS

Standard Photoelectric Sensors

- Provide all the benefits of fast and non-contact detection.
- Types: Thru-beam, retro-reflective and diffuse mode sensors.

Slot and Slot Grid Sensors

- For detecting tiny objects from long distances.
- To detect objects on vibrating and oscillating conveyors

Sensors for Automated Accesses and Entrances

- Escalators, automatic doors, gates, barriers, and elevators

Light Grids

- Ideal for monitoring wider areas.
- For detecting position-independent objects, controlling overlap on larger conveyed goods, and monitoring elevator doors.

Optical Data Couplers

- To establish wireless communication with stock feeders, industrial trucks, automated transportation systems, overhead conveyors and docking stations



Fiber Optic Sensors

- For applications where direct mounting of sensors is not possible due to space restrictions, temperature extremes, and so on.
- Ideal for detecting tiny objects.

Distance Measurement Sensors

- Suitable for a wide range of measuring and positioning tasks.

Special Sensors

- For applications which are functionally not covered by the standard program.

Contrast + Color Sensors

- Detection of print and color marks in the automation of packaging and printing processes.

Photoelectric Safety Sensors

- For personnel protection in automated processes.

INDUSTRIAL VISION

Sensors

- For Sheet Verification: For correct sheet order, in assembling, folding or binding machines
- For Precision Positioning: To detect circular holes in the racking structure and positional deviation
- For Detection Tasks: Such as presence, completeness and position checks

Systems

Suppliers of automation systems, machine engineering, handling equipment, pharmaceutical industry, food industry etc.



ULTRASONIC SENSORS

- Ideal solution for non-contact position and distance measurement in all industrial areas where environmental conditions (dust, smoke or steam) may affect the sensors.
- Adjustable sensitivity to the sound beam width for optimized adjustment of the sensor characteristics



ROTARY ENCODER



- Used in applications that require monitoring rotation rate, speed, linear motion, acceleration and direction.
- Used in mechanical engineering, the conveyor industry, material handling and the packaging industry.
- Types : Absolute Rotary Encoder, Incremental Rotary Encoder.
- Cable Pulls – enable the rotary encoder to measure linear motion
- For hazardous areas (flame proof or intrinsically safe):
 EEx d : Incremental & Absolute encoders
 EEx I : Incremental encoders

POSITIONING SYSTEMS

Inductive Positioning Systems

For high precision detection of linear movements and rotations

Distance Measurement Devices

Distances to 300 m with accuracies of 0.1 mm are easily detected

Position Encoding System WCS

Detection in warehousing, material handling and automated conveyor systems, crane positioning, elevators

Data Matrix Positioning System PCV

Evaluates the exact position in X- and Y directions - up to 10,000 meters

Electronic CAM-Switch Controller PAX

Non-contact electronic CAM-Switch controller and used with PMI inductive angle sensor.

Captures machine shaft position



IDENTIFICATION SYSTEMS

RFID (Radio Frequency Identification)

- Can be used in harsh environments
- Frequencies of 125 kHz, 250 kHz, 13.56 MHz and 868 MHz, and microwave systems of 2.45 GHz can be installed.

Optical Identification

- Object information is stored as a bar-code or two-dimensional code.
- Read via laser or digital photo technology.



INCLINATION & ACCELERATION SENSORS

Inclination Sensors

- Provides angle feedback for motion control
- Detects critical tilt position limits.
- Applications include real-time inclination monitoring in a dip-coating system for car bodies, or tilt-angle monitoring on mobile equipment.

Acceleration Sensors

- Used in wind power plants to monitor machine vibration.
- To predict possible machine component wear or unsafe structural load conditions



AS – INTERFACE

Master+Gateways

- Masters: Used as controllers in stand-alone mode.
- Gateways: An interface between the AS-Interface and higher-level buses
- K20, K25 and K30 enclosure for control cabinets
- G4 enclosure with degree of protection IP65 for mobile applications

Modules

- To link between actuators/ sensors and an AS-Interface
- Up to 1000 I/O signals can be transmitted
- Types: For field applications, control cabinets, circuit board modules, stack light modules

Indication/Operation

Pushbutton modules, stack lights, and audible alarms to support the AS-Interface projects

Power Supplies, Power Extenders+Repeaters

- Power supplies: To supply power to each AS-Interface network
- Repeater: To extend the length of the cable (100m) via repeater
- Power extenders: Option for using standard power supply to power an AS interface

AS-Interface Safety at Work

- For safety-related functions such as an EMERGENCY STOP or door monitors in your existing systems
- Safety monitors, E-stop, Safety switches+enabling switches, Safety modules

Sensors+Rotary Encoder

- Inductive, photoelectric sensors and rotary encoder for direct connection
- Self monitoring, improved diagnostics, assigning parameters to the sensor



Authorized Distributor:



DECCAN ELECTRICALS

7-2-629 & 630, 1st Floor, R.P Road, Secunderabad-3, A.P, India

Ph: +91-40-27712145, 27713026 Fax: +91-40-27803801

info@deccancorp.com www.deccancorp.com