



Sensors



Switches



Controls

Application notes



Application Note : March 2022

Market involved : Materials handling

Product : IRC40 inductive sensors

Customer : Conveyor manufacturers

Subject : Managing several set-up configurations on the production line

CUSTOMER ISSUE :

Conveyors and conveyor systems are mainly used for moving bulk or unit loads continuously or intermittently, unidirectionally from one point to another over a fixed path.

An OEM manufacturer of conveyors designs customized solutions with complex and configurable set-ups depending on customer's needs.

For this reason, he supplies different sensors in separate kits to fulfil all configuration requirements.

The end user will spend a lot of time changing sensors on the conveyor systems to adapt them to the different setups with the waste of time and loss of production efficiency.

OUR SOLUTION :

The rotatable sensing face of the IRC40 in 5 different positions, allows maximum installation flexibility, adapting the sensor to different application needs, without the need of any tools, increasing the uptime of the production line.

The increased sensing distance, up to 22mm for the flush version and 40mm for the non-flush version, allows the positioning of the sensors to be further away from the moving parts, reducing the risk of damage and so reducing downtime.

The 4-corner LEDs, two for power and two for the sensor's status, are visible from any directions and allow easy identification of where the sensor is located on the conveyor.

The integrated diagnostic function with yellow blinking LEDs, also allows easy location of short-circuits, overload conditions or elimination of cabling mistakes.

BENEFITS :

- Increased installation flexibility thanks to the rotatable head
- Easy and quick installation thanks to the push-unlock system of the mounting bracket without the need of any tools
- Further mechanical protection of the sensor thanks to the longer sensing distance and flush installation option
- Reliable detection between -25°C to +80°C, thanks to the advanced microprocessor-based electronics
- 4 LEDs, 2 on each side allow a clear visibility of the sensor's status and power from any direction