

Slot-type industrial switches



Overview

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Key Takeaways

Slot-type industrial switches are sensors that detect the presence or movement of objects by using a slot through which a target passes, available in reed-based and optoelectronic designs.Overview

Slot-type switches, also known as slotted or photomicrosensors, are industrial devices designed to detect objects, positions, or interruptions in a mechanical or automated system. They typically consist of an emitter and a receiver arranged in a U-shaped slot, allowing a target object, such as a steel flag or moving part, to pass through and trigger the switch .

Types

- Reed-Based Slot Switches
 - Use a reed sensor that is activated by a steel flag passing through the slot.
 - Do not require an external magnet for actuation.
 - Offer high switching performance and customizable cable lengths.
 - Commonly used in construction machinery, elevators, and lifting platforms .
- Optoelectronic Slot Switches
 - Use light-based detection, where an emitter sends a beam to a receiver across the slot.

- Detect interruptions when an object passes through the slot.
- Can include built-in amplifiers, connectors, and protective circuits for reliable operation.
- Suitable for position sensing, object detection, and automation systems .

Features

- U-shaped design for easy handling and installation.
- Direct mounting on metal is possible for some models.
- Compact and slim form factors, often with M3 screw mounting.
- High resistance to light interference and noise in optoelectronic versions.
- Customizable contact combinations and cable lengths for flexible integration .

Applications

- Industrial automation and machinery monitoring.
- Elevator and lifting platform controls.
- Object detection in conveyor systems.
- Position sensing in assembly lines and robotics.
- Custom solutions in special machines requiring precise switching .

Advantages

- Reliable and cost-effective for industrial environments.
- Easy installation and maintenance due to compact design and built-in connectors.
- Versatile for both mechanical and optical detection needs.
- Can be customized for specific industrial requirements, including cable length, mounting, and switching capacity . Slot-type industrial switches provide a precise, flexible, and durable solution for detecting objects or positions in a wide range of industrial applications, making them essential components in automation and control systems.

Article Content

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