Safety Door Switches, Interlocks & Non-Contact Switches

Even in fully automated machinery, operator and maintenance access is always required at some level, whether it be access to a secure guarded area or service points to a machine. Monitoring and controlling the access points of machinery is vital to achieving safe machine operation and complying with relevant safety standards, to avoid operator injury.

Safety Door Switches

Safety door switches offer a simple but effective mechanical solution to monitoring the state of access points on a machine. Utilising a key and actuator system, the switch changes state upon the key being removed from the actuator. Various mechanical contact arrangements are available dependant on your application.

Non-Contact Safety Door Switches

Non-contact safety door switches offer an alternative to mechanical door switches by using magnetic or reed switch technology to detect the opening of access points. Typically they offer a longer service life due to no mechanical operation, and suit applications were regular access to a machine area is required, for example loading stations.

Safety Door Interlock Switches

Safety door interlock switches function in a very similar way to safety door switches, using a key and actuator to monitor the state of access points on a machine. In addition they also provide a mechanical locking system, which can be controlled to prevent access to the machine. Typically this would be used to delay access to an area where machinery cannot be halted instantaneously and access will only be allowed after a time period to give the machine sufficient time to stop, for example robot assembly cells.

D4NL Safety Interlock Switch

- Safety door switch with electromagnetic lock or unlock mechanism
- Models with four built-in contacts
- Strong key holding force: 1300 N
- For standard loads and micro loads

D4BL Safety Interlock Switch

- Automatic Mechanical lock
- Auxiliary release key for easy maintenance
- Robust aluminium die-cast body
- Configurable head position

D4GL Safety Interlock Switch

- Slim safety door switch with electromagnetic lock or unlock mechanism
- Models with four built-in contacts
- Strong key holding force: 1000 N
- For standard loads and micro loads

Stainless Steel Body

- Conforms to PLe (EN13859-1)
- SUS316L stainless housing for hygiene applications
- Available in reed or magnetic switch types
- 2NC/1NO outputs
- LED status indication

Miniature Body

- Conforms to PLe (EN13859-1)
- Plastic miniature housing for limited space applications
- Available in reed or magnetic switch types
- 2NC/1NO outputs
- LED status indication

Coded

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Non-coded

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D4NS Safety Door Switch

- Approved direct opening contacts
- Line-up with three contacts: 2NC/1NO and 3NC contact forms
- Gold-plated contacts for high contact reliability
- Applicable for standard loads and micro loads

D4BS Safety Door Switch

- Approved direct opening contacts
- Robust metal housing
- Line-up with two contacts: 1NC/1NO and 2NC
- Gold-plated contacts for high contact reliability
- Applicable for standard loads and micro loads

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