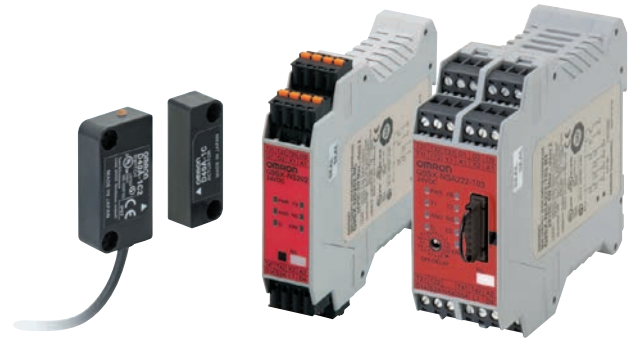


Compact Non-Contact Door Switch/Non-Contact Door Switch Controller D40A/G9SX-NS

Electronic Detection Mechanism for Better Stability in Non-contact Door Switch Operation



For the most recent information on models that have been certified for safety standards, refer to your OMRON website.

Be sure to read the "Safety Precautions" on page 32.

Features

Easy-to-see 2-Color Indicators

Switch status is easy to see at a glance with these red/yellow LED indicators.



Red: Open door detected.
Yellow: Closed door detected.
Not lit: Power OFF or failure

Mount from Either Side

Mount from whichever side provides the easiest wiring path to enable mounting to all types of doors.

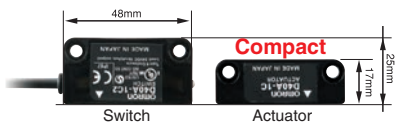


Swinging doors

Sliding doors

Small Actuator

An actuator that is smaller than the switch saves space, even inside the door. Even when mounted with an L-bracket, the actuator's height will not hinder installation or operation.



Switch

Actuator

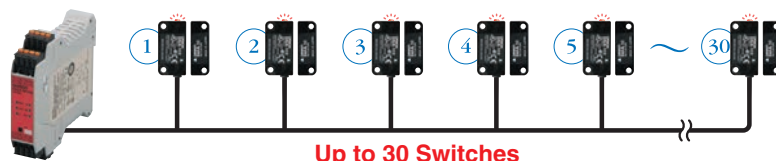
Save Labor with Connector and Reduce Inventory

Wiring time can be reduced with the connector. Cable lengths can be selected, and only cables of required lengths can be purchased. Switches can be integrated into a single Switch with a connector when installing in a machine with multiple doors or various types of machines, which can reduce inventory.



Connect Up to 30 Switches to a Single Controller

Reduce costs by connecting up to 30 Switches to a single Controller.



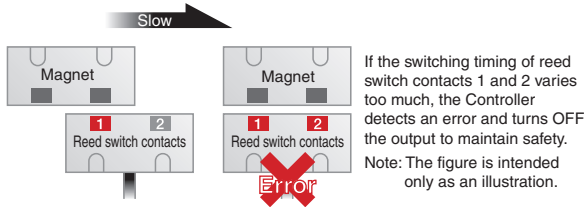
Up to 30 Switches

Solves Conventional Switch Issues to Provide Stable Detection

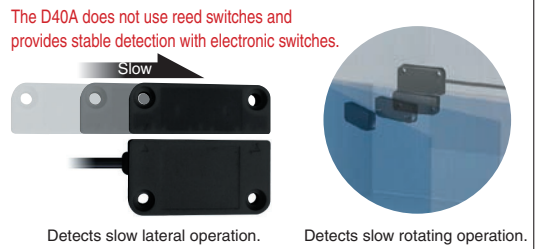
Issue 1 The Switch does not accurately detect the door when it is closed slowly, resulting in an error.



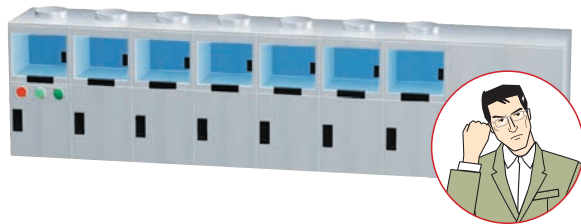
Solution 1 Conventional Switches



Stable Detection with the D40A's New System

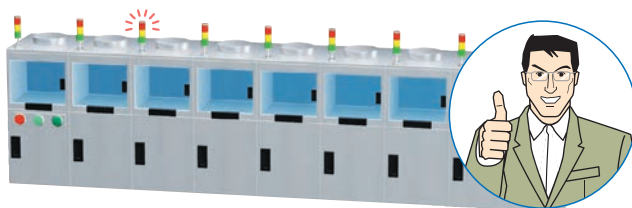


Issue 2 It is nearly impossible to tell which door is open in a multi-door application.



- If an error occurs...**
- The system cannot be started because the Controller has turned OFF the output even though all doors appear to be closed.
 - It's impossible to tell if there is a door open or if an error has occurred.
 - All doors must be opened and closed before operation can be started.

Solution 2



With the D40A...

The auxiliary outputs can be used to easily indicate which door is open. And with two-color indicators, mounting adjustments are also easy. The D40A is the first Non-contact Door Switch to combine 2-color indicators, auxiliary outputs, and 30-switch connection capacity, allowing you to create a better safety environment.

Issue 3 Various cable lengths and complex wiring are required for multiple doors.

Solution 3

The model with a connector allows you to select the cable lengths that are connected and purchase the cables of required lengths. Switches can be integrated into a single Switch with a connector. Downtime can be reduced by replacing the cable and switch partially at maintenance time.

