

T-type cylinder switch with off-delay timer
T2JH/T2JV



Overview

Optimal for high-speed intermediate detection of cylinders.
Ensures reliable PC input by providing an off-delay timer.

Features

- Eliminates PC input problems that tend to occur during high-speed intermediate detection of cylinders.
- Off-delay timer is 200 ±50 ms
- Can be mounted on Rodless Cylinder SRL3.
- Wide variety of mountable cylinders.

*If ordered with cylinder mounting, it will be a custom order product.
*Some cylinders have limited mountable switches. Please refer to the P. for each cylinder for details.

T-type cylinder switch for cutting oil resistance
T2YLH/V, T3YLH/V



Overview

This is a cylinder switch designed to prevent cutting oil used for machine tools in machining sites, etc., from entering the inside of the switch.

Features

- Oil resistance improved by applying a coating agent to the board.
- Can be used even in environments where cutting oil splashes.
- Wide variety of mountable cylinders

*If ordered with cylinder mounting, it will be a custom order product.

Water-resistant Cylinder Switch
T2WLH/V



Features

- Product with improved water (coolant) resistance
- Water (coolant) resistance performance: 6 times or more compared to conventional products
- Space saving (70% down compared to conventional), Lightweight (46% down compared to conventional)
- Compatible with existing switch SW-T2YL
- Reduction of wiring space (Can be stored in T-slot)
- Protection structure IP67

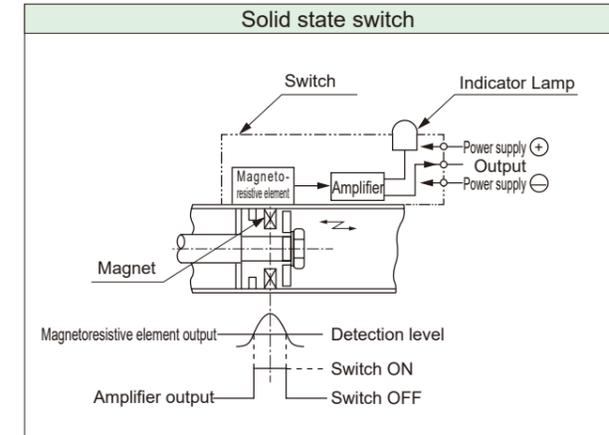
Magnetic Field Resistant Cylinder Switch
TOY



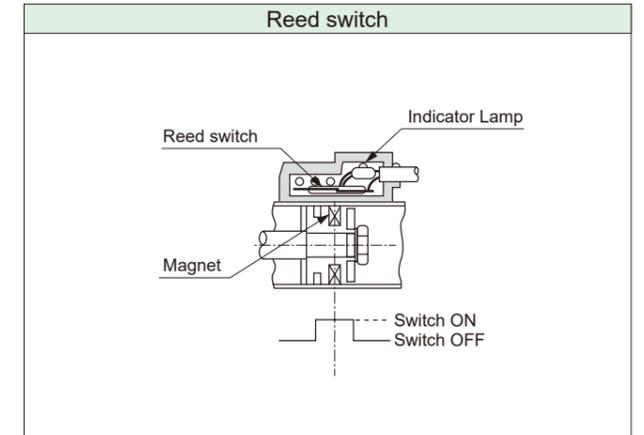
Features

- Product with improved reliability in magnetized environments (Optimal for DC welding processes)
- Space saving (70% down compared to conventional products)
- Power saving (50% down compared to conventional products)
- Compatible with existing switch SW-T2YD (excluding some models and bores)
- Wide range of variations (cable material, connectors, spatter adhesion prevention cover)
- Protection structure IP67

Operating Principle

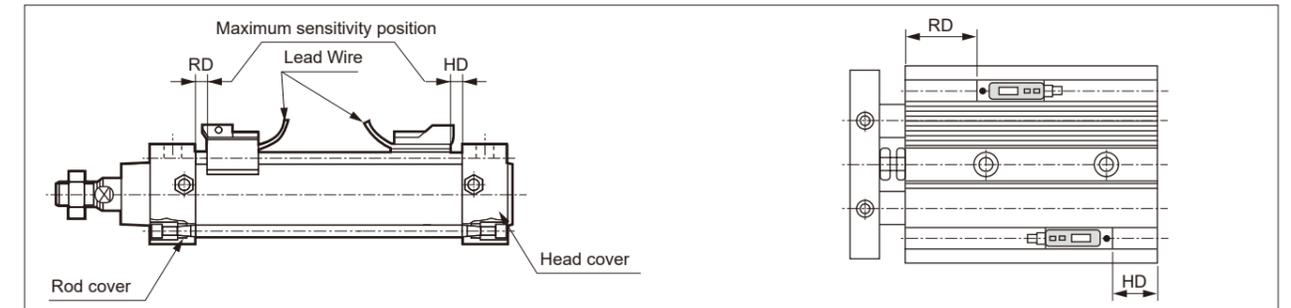


When the piston magnet approaches, a change occurs in the magnetic field, and the output voltage of the magneto-resistive element changes as shown in the figure. By amplifying this signal, a switching output as shown in the figure can be obtained.



When the piston magnet approaches, a magnetic field is generated, the opposing contacts of the reed switch are magnetized, an attractive force is generated, and the contacts close.

Switch mounting position



● When mounting at stroke end

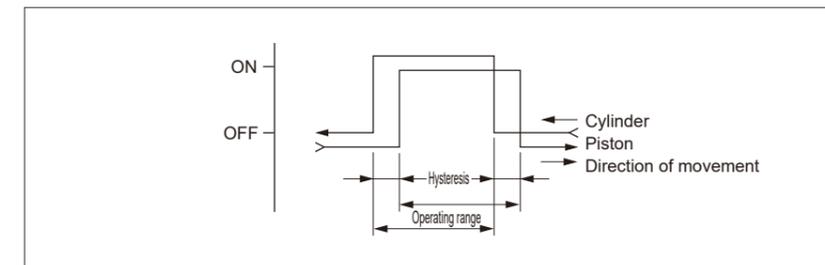
To operate the switch at the maximum sensitivity position, please mount it at the RD dimension on the rod side and the HD dimension on the head side, respectively. Note that the HD and RD dimensions vary depending on the cylinder. Please refer to the external dimension diagram for each cylinder. Also, please mount the switch with the lead wire facing inward as shown in the figure above.

● When mounting at intermediate stroke position

When detecting in the middle of the stroke, fix the piston at the stopping position and move the switch back and forth over the piston to find the position where the switch first turns ON. The midpoint between those two positions is the maximum sensitivity position at that piston position, and becomes the mounting position.

● About circumferential direction mounting

Varies depending on the mounting bracket. The band method has no restrictions in the circumferential direction. For the tie-rod method, rotation in 90° increments is possible. For rail type, circumferential rotation is not possible.



Hysteresis

● This is the distance from the position where the piston moves and the switch turns ON, to when it moves in the reverse direction and turns OFF. If the piston stops during this time, the switch operation becomes unstable and susceptible to external influences. Please be careful.

Operating range

● This refers to the range from when the piston moves and the switch turns ON, to when it moves further in the same direction and turns OFF. The center of the operating range is the maximum sensitivity position. If this position is set as the piston stop position, it will be less susceptible to disturbances and the switch operation will also be stable.