

Smooth Cylinder

CS2Y Series

∅125, ∅140, ∅160

How to Order

With auto switch **CDS2 Y L 160** - **300** - **M9BW** -

With auto switch
(Built-in magnet)

Smooth Cylinder

Mounting

| | |
|---|-----------------|
| B | Basic |
| L | Foot |
| F | Rod flange |
| G | Head flange |
| C | Single clevis |
| D | Double clevis |
| T | Center trunnion |

Bore size

| | |
|-----|--------|
| 125 | 125 mm |
| 140 | 140 mm |
| 160 | 160 mm |

Port thread type

| | |
|-----|-----|
| Nil | Rc |
| TN | NPT |
| TF | G |

Cylinder stroke (mm)

Refer to page 584 for the "Maximum Stroke" table.

Number of auto switches

| | |
|-----|----------|
| Nil | 2 pcs. |
| S | 1 pc. |
| 3 | 3 pcs. |
| n | "n" pcs. |

Made to Order
For details, refer to page 584.

Auto switch

| | |
|-----|---------------------|
| Nil | Without auto switch |
|-----|---------------------|

* Refer to the table below for the applicable auto switch model.

Suffix for cylinder

| | |
|-----|--------------------------|
| Nil | Without cushion |
| J | Nylon tarpaulin |
| K | Heat resistant tarpaulin |
| A | With double-side cushion |
| R | With rod cushion |
| H | With head cushion |
| Nil | Without cushion |

* When more than one symbol is specified, indicate them in alphabetical order.

Built-in Magnet Cylinder Model

If a built-in magnet cylinder without auto switch is required, there is no need to enter the symbol for auto switch.
(Example) CDS2YL125-200

Applicable Auto Switches / For detailed auto switch specifications, refer to pages 1575 to 1701.

| Type | Special function | Electrical entry | Indicator/light | Wiring (Output) | Load voltage | | Auto switch model | | Lead wire length (m) | | | | | Pre-wired connector | Applicable load | | | |
|--|---|-------------------------------|-------------------------|-----------------|--------------|-----------|-------------------|---------------|----------------------|--------------|-------|-------|------------|---------------------|-----------------|------------|---|------------|
| | | | | | DC | AC | Tie-rod mounting | Band mounting | 0.5 (Nil) | 1 (M) | 3 (L) | 5 (Z) | | | | | | |
| Solid state auto switch | — | Grommet | — | 3-wire (NPN) | 24 V | 5 V, 12 V | — | M9N | ● | ● | ○ | ○ | ○ | IC circuit | Relay, PLC | | | |
| | | | | 3-wire (PNP) | | | | M9P | ● | ● | ○ | ○ | ○ | | | | | |
| | | 2-wire | M9B | ● | ● | ○ | ○ | — | — | | | | | | | | | |
| | | Terminal conduit | 3-wire (NPN) | 24 V | 5 V, 12 V | — | G39 | — | — | — | — | — | IC circuit | | | | | |
| | 2-wire | K39 | — | | | | — | — | — | — | — | | | | | | | |
| | Diagnostic indication (2-color indicator) | Grommet | Yes | 3-wire (NPN) | 24 V | 5 V, 12 V | — | M9NW | ● | ● | ● | ○ | ○ | IC circuit | | | | |
| | | | | 3-wire (PNP) | | | | M9PW | ● | ● | ● | ○ | ○ | — | | | | |
| | Water resistant (2-color indicator) | Grommet | — | 3-wire (NPN) | 24 V | 5 V, 12 V | — | M9BW | ● | ● | ● | ○ | ○ | — | | | | |
| | | | | 3-wire (PNP) | | | | M9NA*1 | — | ○ | ○ | ● | ○ | ○ | | IC circuit | | |
| | Diagnostic indication (2-color indicator) | Grommet | — | 2-wire | 24 V | 12 V | — | M9PA*1 | — | ○ | ○ | ○ | ○ | — | | | | |
| 4-wire (NPN) | | | | M9BA*1 | | | | — | ○ | ○ | ● | ○ | ○ | — | | | | |
| Magnetic field resistant (2-color indicator) | Grommet | — | 2-wire (Non-polar) | 24 V | 5 V, 12 V | — | F59F | — | ○ | ○ | ○ | ○ | IC circuit | | | | | |
| | | | 3-wire (NPN equivalent) | | | | P3DWA | — | ● | — | ● | — | ○ | — | | | | |
| Reed auto switch | — | Grommet | Yes | 2-wire | 24 V | — | — | A96 | — | ● | — | ● | — | IC circuit | Relay, PLC | | | |
| | | | | | | | | 12 V | A93 | — | ● | ● | ● | — | | — | | |
| | | | | | | | | 5 V, 12 V | A90 | — | ● | — | — | — | | IC circuit | | |
| | | | | | | | | 100 V, 200 V | A54 | — | ● | — | ● | — | | — | | |
| | | Terminal conduit DIN terminal | Yes | 2-wire | 24 V | — | — | — | — | A64 | — | ● | — | ● | | — | — | |
| | | | | | | | | | | — | A33 | — | — | — | | — | — | PLC |
| | | | | | | | | | | 100 V, 200 V | A34 | — | — | — | | — | — | — |
| | | | | | | | | | | — | A44 | — | — | — | | — | — | Relay, PLC |
| Diagnostic indication (2-color indicator) | Grommet | — | — | 24 V | — | — | — | A59W | — | ● | — | ● | — | — | | | | |

*1 Water resistant type auto switches can be mounted on the above models, but in such case SMC cannot guarantee water resistance. Consult with SMC regarding water resistant types with the above model numbers.

* Lead wire length symbols: 0.5 m Nil (Example) M9NW 3 m L (Example) M9NWL
1 m M (Example) M9NWM 5 m Z (Example) M9NWZ

* Solid state auto switches marked with "○" are produced upon receipt of order.

* Since there are applicable auto switches other than listed, refer to page 589 for details.

* For details about auto switches with pre-wired connector, refer to pages 1648 and 1649.

* D-A9□, M9□, M9□W, M9□A, P3DWA□ are shipped together (but not assembled). (Only auto switch mounting bracket is assembled at the time of shipment.)

CJ1

CJP

CJ2

JCM

CM2

CM3

CG1

CG3

JMB

MB

MB1

CA2

CS1

CS2

D-□

-X□

Technical Data