

# Air Cylinder, Double Rod

# CS2W Series

∅125, ∅140, ∅160

## How to Order

**CS2W** **L** **125** **100**

**With auto switch** **CDS2W** **L** **125** **100** **M9BW**

**With auto switch**  
(Built-in magnet)

**Double rod type**

**Mounting**

B	Basic
L	Foot
F	Rod flange
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 579 for the "Maximum Stroke" table.

**Made to Order**  
For details, refer to page 579.

**Number of auto switches**

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

**Auto switch**

Nil	Without auto switch
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\* Refer to the table below for the applicable auto switch model.

**Suffix for cylinder**

Single side rod boot	J	Nylon tarpaulin
Both side rod boot	KK	Heat resistant tarpaulin
Both side rod boot	K	Heat resistant tarpaulin
Both side rod boot	JJ	Nylon tarpaulin
Both side rod boot	KK	Heat resistant tarpaulin

### 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) CDS2WB125-100

### 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)				
													A96			A93
Solid state auto switch	—	Grommet	—	3-wire (NPN)	24 V	5 V, 12 V	—	M9N	●	●	●	○	○	IC circuit	Relay, PLC	
				3-wire (PNP)				12 V	M9P	●	●	●	○			○
		Terminal conduit	—	2-wire	24 V	5 V, 12 V	—	G39	—	—	—	—	—	IC circuit		
				3-wire (NPN)				12 V	K39	—	—	—	—	—		
	Diagnostic indication (2-color indicator)	Grommet	Yes	3-wire (NPN)	24 V	5 V, 12 V	—	M9NW	●	●	●	○	○	IC circuit		
				3-wire (PNP)				12 V	M9PW	—	—	—	—	—		
	Water resistant (2-color indicator)	Grommet	—	2-wire	24 V	12 V	—	M9BW	●	●	●	○	○	—		
				3-wire (NPN)				5 V, 12 V	M9NA <sup>*1</sup>	—	○	○	●	○		○
	Diagnostic indication (2-color indicator)	Grommet	—	3-wire (PNP)	24 V	12 V	—	M9PA <sup>*1</sup>	—	○	○	●	○	○		—
				2-wire				5 V, 12 V	M9BA <sup>*1</sup>	—	○	○	●	○		○
Magnetic field resistant (2-color indicator)	Grommet	—	4-wire (NPN)	24 V	5 V, 12 V	—	F59F	●	●	●	○	○	IC circuit			
			2-wire (Non-polar)				—	P3DWA	—	—	—	—	—			
Reed auto switch	—	Grommet	Yes	3-wire (NPN equivalent)	24 V	5 V	—	A96	●	●	●	—	—	IC circuit		
				12 V		100 V	A93	—	—	—	—	—				
				5 V, 12 V		100 V or less	A90	—	—	—	—	—				
		Terminal conduit	No	—	2-wire	24 V	12 V	—	100 V, 200 V	A54	—	—	—	—	—	IC circuit
									200 V or less	A64	—	—	—	—	—	
		DIN terminal	Yes	—	—	24 V	100 V, 200 V	—	—	A33	—	—	—	—	—	—
									—	A34	—	—	—	—	—	
Diagnostic indication (2-color indicator)	Grommet	—	—	24 V	—	—	—	A44	—	—	—	—	—	Relay, PLC		
							—	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.)