ISO Cylinder: Standard Double Acting, Single/Double Rod Series C96 ø32, ø40, ø50, ø63, ø80, ø100, ø125

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How to Order B 32 - 100 J W Without auto switch **C96S** C96SDB32-100JW-M9BWS With auto switch Built-in magnet ⊌ Made to Order Refer to the page Auto switch 26 for details. Mounting • Nil Without auto switch B Basic/Without bracket Bore size * For applicable auto switch Number of Axial foot 32 mm model, refer to the below Rod end flange auto switches F 40 mm Head end flange 2 pcs. 50 50 mm Single clevis S 1 pc. **D** Double clevis 3 3 pcs. Rod boot 80 mm Center trunnion "n" pcs. 100 mm Nil Without boot 125 125 mm Nylon tarpaulin (one end) Rod Nylon tarpaulin (both ends) Stroke (mm) Heat resistant tarpaulin (one end) Nil Single rod Κ Refer to "Standard Stroke" on page 26. Heat resistant tarpaulin (both ends) Double rod

Applicable Auto Switches/Tie-rod Mounting

		Electrical	Indicator light	Wiring	Load voltage			Auto switch model		Lead wire length (m)			Pre-wired	Applicable						
Type	Special function	entry		(Output)	DC AC		AC	Tie-rod mounting	Band mounting	0.5 (Nil)	1 (M)	3 (L)	5 (Z)	connector		load				
	_			3-wire (NPN))	5 V, 12 V	_	M9N	_	•	•	•	0	0	IC					
		Grommet		3-wire (PNP) 2-wire	24 V			M9P	_	•	•	•	0	0	10					
						12 V		M9B	_	•	•	•	0	0						
					_	_	100 V, 200 V	J51	_	•	_	•	0	_						
ے		Terminal		3-wire (NPN)	24 V	5 V, 12 V		_	G39	_	_	_	_	_	IC					
Solid state switch		conduit		2-wire		12 V		_	K39	_	_	_	_	_	_					
S	Diagnosis indication			3-wire (NPN)		5 V, 12 V	M9NW	_	•	•	•	0	0	IC R	Dolov					
tate	(2-color)		Yes	3-wire (PNP)				M9PW	_	•	•	•	0	0	10					
ot o				2-wire		12 V]	M9BW	_	•	•	•	0	0	_] ' [0				
ijo	Water resistant (2-color)	Grommet		3-wire (NPN)		5 V, 12 V	M9NA**	_	0	0	•	0	0	IC						
0)			:	3-wire (PNP)			2 V	M9PA**	_	0	0	•	0	0	10					
				2-wire		12 V		M9BA**	_	0	0	•	0	0	_					
	Diagnosis output (2-color)			4-wire (NPN) 2-wire (Non-polar type)		5 V, 12 V		F59F	_	•	_	•	0	0	IC					
	Strong magnetic field resistant (2-color)					_		P4DW	_	_	_	•	•	0	_					
				Yes	3-wire (Equiv. to NPN)	_	5 V	_	A96		•	_	•	_	_	IC	_			
		Grommet					100 V	A93	_	•	_	•	_	_	_					
ch Ch			None	None	•						100 V or less	A90		•	-	•	_	_	IC	Relay, PLC Relay, PLC
Reed switch	_		Yes				100 V, 200 V	A54		•	_	•	•	_		PLC				
		1	None		24 V		200 V or less	A64	_	•	_	•	_	_						
		Terminal		2-wire			_	1	A33	_	_	_	-	_		PLC				
		conduit					100 V, 200 V	1	A34	_	_		_	_		, and the second				
		DIN	Yes					_	A44	_				_		Relay,				
	Diagnosis indication (2-color)	Grommet				_	_	A59W	_	•	_	•	_	_		PLC				

^{*} Lead wire length symbols: 0.5 m ······· Nil (Example) M9NW

^{**} 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.



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

¹ m M (Example) M9NWM

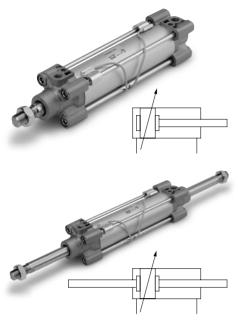
³ m ······ L (Example) M9NWL

⁵ m ······ Z (Example) M9NWZ

^{*} Since there are other applicable auto switches than listed, refer to pages 1263 to 1371 in Best Pneumatics No.2.

^{*} For details about auto switches with pre-wired connector, refer to pages 1328 and 1329 in Best Pneumatics No.2.

^{*} D-A9□, M9□, M9□W, M9□AL are shipped together, (but not assembled). (Switch mounting bracket is only assembled at the time of shipment.)



Specifications

Dava siza (mm)	00	40		-00	00	400	405			
Bore size (mm)	32	40	50	63	80	100	125			
Action	Double acting									
Fluid	Air									
Proof pressure	1.5 MPa									
Max. operating pressure	1.0 MPa									
Min. operating pressure	0.05 MPa									
Ambient and fluid temperature	Without auto switch: –20 to 70°C* With auto switch: –10 to 60°C*									
Lubrication	Not required (Non-lube)									
Operating piston speed	50 to 1000 mm/s 50 to 700 mm/s									
Allowable stroke tolerance	Up to 250 st: ${}^{+1.0}_{0}$, 251 to 1000 st: ${}^{+1.4}_{0}$, 1001 to 1500 st: ${}^{+1.8}_{0}$, 1501 to 2000 st: ${}^{+2.2}_{0}$									
Cushion	Both ends (Air cushion)									
Port size	G 1/8	G 1/4	G 1/4	G 3/8	G 3/8	G 1/2	G 1/2			
Mounting	Basic, Axial foot, Rod end flange, Head end flange, Single clevis, Double clevis, Center trunnion									

^{*} No freezing

Minimum Stroke for Auto Switch Mounting

Refer to page 44 for "Minimum Stroke for Auto Switch Mounting".

Made to Order

Made to Order Specifications (For details, refer to pages 53 to 58.)

Symbol	Specifications					
-XA□	Change of rod end shape					
-XC14	Change of trunnion bracket mounting position					
-XB6	Heat resistant cylinder (150°C)					
-XB7	Cold resistant cylinder					
-XC4	With heavy duty scraper					
-XC7	Tie rod, cushion valve, tie rod nut, etc. made of stainless steel					
-XC10	Dual stroke cylinder/Double rod					
-XC11	Dual stroke cylinder/Single rod					
-XC22	Fluororubber seals					
-XC35	With coil scraper					
-XC68	Made of stainless steel (With hard chronium plated piston rod)					

Standard Stroke (Single rod)

Bore size	Standard stroke	Max. stroke*			
(mm)	(mm)	Single rod	Double rod		
32	25, 50, 80, 100, 125, 160, 200, 250, 320, 400, 500	1000			
40	25, 50, 80, 100, 125, 160, 200, 250, 320, 400, 500				
50	25, 50, 80, 100, 125, 160, 200, 250, 320, 400, 500, 600				
63	25, 50, 80, 100, 125, 160, 200, 250, 320, 400, 500, 600	1900	1000		
80	25, 50, 80, 100, 125, 160, 200, 250, 320, 400, 500, 600, 700, 800				
100	25, 50, 80, 100, 125, 160, 200, 250, 320, 400, 500, 600, 700, 800				
125	_	2000			

Intermediate strokes are available.

Accessories

	Basic	Foot	Rod end flange	Head end flange	Single clevis	Double clevis	Center trunnion	
Ctomploud	Rod end nut	•	•	•	•	•	•	•
Standard	Clevis pin	_	_	_	_	_	•	_
	Piston rod ball joint	•	•	•	•	•	•	•
Option	Rod clevis	•	•	•	•	•	•	•
	Rod boot	•	•	•	•	•	•	•

^{*} Please do not use a piston rod ball joint (or floating joint) together with a head end clevis with a ball joint (or angled head end clevis with a ball joint).



^{*} Please consult with SMC for longer strokes.

^{**} ø125 and Double rod are produced upon recipt of order.