

Air Cylinder: Standard Type Double Acting, Single Rod

CA2 Series

ø40, ø50, ø63, ø80, ø100



How to Order

CA2 B [] [] 50 [] [] - 100 [] [] Z - [] [] [] []

With auto switch **CDA2 B [] [] 50 [] [] - 100 [] [] Z - [] [] [] [] M9BW [] [] [] []**

With auto switch (Built-in magnet)

Mounting

B	Basic
L	Axial foot
F	Rod flange
G	Head flange
C	Single clevis
D	Double clevis
T	Center trunnion

Tube material

Nil	Aluminum tube
F*	Steel tube

Port thread type

Nil	Rc
TN	NPT
TF	G

Bracket 1

Nil	Without bracket
N	Pivot bracket

* Only for D and T mounting types.
* Pivot bracket is shipped together with the product, but not assembled.

Auto switch

Nil	Without auto switch
V	Single knuckle joint
W	Double knuckle joint

* For applicable auto switches, refer to the table below.

Bracket 2

Nil	Without bracket
V	Single knuckle joint
W	Double knuckle joint

* A knuckle joint pin is not provided with the single knuckle joint.
* Rod end bracket is shipped together with the product, but not assembled.

Suffix (Cushion)

Nil	Air cushion
N	Rubber bumper

Suffix (Rod boot)

Nil	None
J	Nylon tarpaulin
K	Heat resistant tarpaulin

Number of auto switches

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

Made to Order
For details, refer to the next page.

Cylinder stroke (mm)
For details, refer to the next page.

Applicable Auto Switches

(Refer to pages 1575 to 1701 for further information on auto switches.)

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)				—	G59	●	●	●	○			○	
		2-wire		12 V	M9P	—	G5P	●	●	●	○	○					
		3-wire (NPN)			5 V, 12 V	M9B	—	K59	●	●	●	○	○				
	Terminal conduit	Yes	2-wire	24 V		12 V	—	G39C	—	G39	—	—	—	IC circuit			
			3-wire (PNP)		K39C			—	K39	—	—	—					
	Diagnostic indication (2-color indicator)	Grommet	—	—	3-wire (NPN)	5 V, 12 V	—	M9NW	—	G59W	●	●	●	○		○	
					3-wire (PNP)			M9PW	—	G5PW	●	●	●	○		○	
	Water resistant (2-color indicator)	Grommet	—	—	2-wire	24 V	12 V	—	M9BW	—	G59W	●	●	●		○	○
					3-wire (NPN)				5 V, 12 V	M9NA* ¹	—	—	○	○		○	○
With diagnostic output (2-color indicator)	Grommet	—	—	3-wire (PNP)	5 V, 12 V	—	M9PA* ¹	—		—	○	○	●	○	○		
				2-wire			12 V	M9BA* ¹	—	—	○	○	●	○	○		
Magnetic field resistant (2-color indicator)	Grommet	—	—	4-wire (NPN)	5 V, 12 V	—		—	G5BA* ¹	—	—	—	●	○	○		
				2-wire (Non-polar)			—	F59F	—	G59F	●	—	●	○	○	○	
Reed auto switch	—	Grommet	Yes	3-wire (NPN equivalent)	24 V	12 V		—	A96	—	—	●	—	—	—	IC circuit	
				2-wire			5 V		100 V	A93	—	—	●	●	●	—	—
		Terminal conduit		Yes	100 V or less	A90		—	—	●	—	—	—	—			
					DIN terminal	Yes	100 V, 200 V	A54	B54	●	●	●	—	—			
	Grommet	—	200 V or less	A64			B64	●	—	—	—	—					
			Diagnostic indication (2-color indicator)	Grommet	—	—	—	—	A33C	A33	—	—	—	—	—		
	—	A34C				A34			—	—	—	—	—				
	—	Grommet	—	—	—	—	—	A44C	A44	—	—	—	—	—			
					—			A59W	B59W	●	—	●	—	—			

*1 Water resistant type auto switches can be mounted on the above models, but in such case SMC cannot guarantee water resistance.
A water-resistant type cylinder is recommended for use in an environment which requires water resistance.

* Lead wire length symbols: 0.5 m..... Nil (Example) M9NW * Solid state auto switches marked with "○" are produced upon receipt of order.
1 m..... M (Example) M9NWM
3 m..... L (Example) M9NWL
5 m..... Z (Example) M9NWW

* Since there are other applicable auto switches than listed above, refer to page 523 for details.
* For details about auto switches with pre-wired connector, refer to pages 1648 and 1649.
* The D-A9□/M9□□□/P3DWA□ auto switches are shipped together, (but not assembled). (However, auto switch mounting brackets are assembled for the D-A9□/M9□□ before shipment.)

