

Smooth Cylinder

CQ2Y Series

ø32, ø40, ø50, ø63, ø80, ø100

How to Order

With auto switch **CDQ2Y** **B** **32** **-** **30** **D** **C** **Z** **-M9BW**

Mounting

B	Through-hole (Standard)
A	Both ends tapped
L	Foot (Note)
LC	Compact foot
F	Rod flange
G	Head flange
D	Double clevis

* Mounting bracket is shipped together with the product, (but not assembled).

Bore size

32	32 mm
40	40 mm
50	50 mm
63	63 mm
80	80 mm
100	100 mm

Thread type

Nil	Rc
TN	NPT
TF	G

Cylinder stroke (mm)
Refer to "Standard Strokes" on page 234.

Action

D	Double acting
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Body option 1

Nil	Standard
F	With boss on head end

Auto switch

Nil	Without auto switch
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* For applicable auto switches, refer to the table below.

Auto switch mounting groove

Z	4 surfaces
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Body option 2

Nil	Standard (Female rod end)
M	Male rod end

Cushion

C	Rubber bumper
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Number of auto switches

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

With auto switch (Built-in magnet)

Built-in Magnet Cylinder Model

If a built-in magnet cylinder without an auto switch is required, there is no need to enter the symbol for the auto switch. (Example) CDQ2YL40-50DCZ

Applicable Auto Switches/Refer to pages 941 to 1067 for further information on auto switches.

Type	Special function	Electrical entry	Indicator light	Wiring (Output)	Load voltage		Auto switch model		Lead wire (m)					Pre-wired connector	Applicable load
					DC	AC	Perpendicular	In-line	0.5 (Nil)	1 (M)	3 (L)	5 (Z)	None (N)		
Solid state auto switch	Diagnostic indication (2-color indicator)	Grommet	Yes	3-wire (NPN)	24 V	—	M9NV	M9N	●	●	○	—	—	○	Relay, PLC
				3-wire (PNP)			M9PV	M9P	●	●	○	—	—	○	
				2-wire			M9BV	M9B	●	●	○	—	—	○	
				3-wire (NPN)			M9NVW	M9NW	●	●	○	—	—	○	
	Water resistant (2-color indicator)	Grommet	Yes	3-wire (PNP)			M9PVW	M9PW	●	●	○	—	—	○	
				2-wire			M9BVW	M9BW	●	●	○	—	—	○	
				3-wire (NPN)			M9NAV ^{*1}	M9NA ^{*1}	○	○	●	—	—	○	
				3-wire (PNP)			M9PAV ^{*1}	M9PA ^{*1}	○	○	●	—	—	○	
Reed auto switch	Magnetic field resistant (2-color indicator)	Grommet	Yes	2-wire	24 V	5 V, 12 V, 100 V or less	M9BAV ^{*1}	M9BA ^{*1}	○	○	●	—	—	○	Relay, PLC
				2-wire (Non-polar)			—	P3DWA	○	○	●	—	—	○	
				3-wire (NPN equivalent)			A96V	A96	●	—	●	—	—	—	
Reed auto switch	—	Grommet	No	2-wire	24 V	5 V, 12 V, 100 V or less	A93V ^{*2}	A93	●	●	●	—	—	—	Relay, PLC
				2-wire			A90V	A90	●	—	●	—	—	—	

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

Please consult with SMC regarding water resistant types with the above model numbers.

*2 1 m type lead wire is only applicable to D-A93.

* Lead wire length symbols: 0.5 m Nil (Example) M9NW
1 m M (Example) M9NWM
3 m L (Example) M9NL
5 m Z (Example) M9NWZ

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

* Since there are other applicable auto switches than listed, refer to page 249 for details.

* For details about auto switches with pre-wired connector, refer to pages 1014 and 1015.