

Smooth Cylinder

CM2Y Series

ø20, ø25, ø32, ø40



How to Order

CM2Y B 40 [] - 150 [] Z - [] - [] - []

With auto switch CDM2Y B 40 [] - 150 [] Z - [] - [] - [] - M9BW [] - []

With auto switch (Built-in magnet)

Mounting

B	Basic (Double-side bossed)
L	Axial foot
F	Rod flange
G	Head flange
C	Single clevis
D	Double clevis
U	Rod trunnion
T	Head trunnion
E	Integrated clevis
V	Integrated clevis (90°)
BZ	Boss-cut/Basic
FB	Boss-cut/Rod flange
UZ	Boss-cut/Rod trunnion

Bore size

20	20 mm
25	25 mm
32	32 mm
40	40 mm

Port thread type

Nil	Rc
TN	NPT
TF	G

Cylinder stroke (mm)
Refer to "Standard Strokes" on page 156.

Rod end thread

Nil	Male rod end
F	Female rod end

Pivot bracket

Nil	None
N	Pivot bracket is shipped together with the product.

* Only for C, T, U, E, V, UZ mounting types
* Pivot bracket is shipped together with the product, but not assembled.

Rod end bracket

Nil	None
V	Single knuckle joint
W	Double knuckle joint

* No bracket is provided for the female rod end type.
* A knuckle joint pin is not provided with the single knuckle joint.
* Rod end bracket is shipped together with the product, but not assembled.

Made to Order
Refer to page 156 for details.

Number of auto switches

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

Auto switch

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

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) CDM2YB20-100Z

*** Refer to "Ordering Example of Cylinder Assembly" on page 157.**

- REA
- REB
- REC
- Smooth
- Low Speed
- MQ
- RHC
- RZQ

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 length (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	—	Grommet	Yes	3-wire (NPN)	5 V, 12 V	—	M9NV	M9N	●	●	○	○	○	IC circuit	Relay, PLC		
				3-wire (PNP)			M9PV	M9P	●	●	○	○					
		Connector		2-wire	12 V	—	M9BV	M9B	●	●	○	○	○	○		—	
				Terminal conduit			3-wire (NPN)	5 V, 12 V	—	—	G39A	●	●	○		○	○
	Diagnostic indication (2-color indicator)	Grommet	Yes	2-wire	12 V	—	—			K39A	●	●	○	○		○	—
				3-wire (NPN)			5 V, 12 V	—	M9NVV	M9NV	●	●	○	○		○	IC circuit
				3-wire (PNP)	M9PVV	M9PV			●	●	○	○	○	—			
				2-wire	12 V	—	M9BVV	M9BV	●	●	○	○	○	—			
				3-wire (NPN)			5 V, 12 V	—	M9NAV ^{*1}	M9NA ^{*1}	○	○	○	○		○	IC circuit
				3-wire (PNP)	M9PAV ^{*1}	M9PA ^{*1}			○	○	○	○	○	○		—	
Water resistant (2-color indicator)	Grommet	Yes	2-wire	12 V	—	M9BAV ^{*1}	M9BA ^{*1}	○	○	○	○	○	—				
			4-wire (NPN)			5 V, 12 V	—	H7NF	●	●	○	○	○	IC circuit			
Reed auto switch	—	Grommet	Yes	3-wire (NPN equivalent)	5 V	—	A96V	A96	●	●	○	○	○	IC circuit	Relay, PLC		
				100 V			A93V ^{*2}	A93	●	●	○	○	○	—			
				100 V or less	24 V	—	A90V	A90	●	●	○	○	○	IC circuit			
				100 V, 200 V			B54	●	●	○	○	○	—				
				200 V or less			B64	●	●	○	○	○	—				
		Connector		No	2-wire	Yes	24 V or less	12 V	—	C73C	●	●	○	○		○	—
							—			C80C	●	●	○	○		○	IC circuit
							—			A33A	—	—	○	○		○	—
							100 V, 200 V			A34A	—	—	○	○		○	—
							—			A44A	—	—	○	○		○	—
Terminal conduit	No	2-wire	Yes	5 V	12 V	—	B59W	●	●	○	○	○	—				
				—			—	—	—	○	○	○	—				
Diagnostic indication (2-color indicator)	Grommet	Yes	Yes	—	—	—	—	—	○	○	○	○	—				
				—			—	—	—	○	○	○	—				

*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) M9NW
3 m L (Example) M9NW
5 m Z (Example) M9NW
None N (Example) H7CN

* Solid state auto switches marked with "○" are produced upon receipt of order.
* Do not indicate suffix "N" for no lead wire on the D-A3□A/A44A/G39A/K39A models.

* Since there are other applicable auto switches than listed above, refer to page 171 for details.
* For details about auto switches with pre-wired connector, refer to pages 1014 and 1015.
* The D-A9□□M9□□ auto switches are shipped together, (but not assembled). (However, only the auto switch mounting brackets are assembled before shipment.)
* The D-C7□□C80□/H7□□ auto switches are assembled before shipment.

- D-□
- X-□

