

Air Cylinder Short Type

Standard: Double Acting, Single Rod

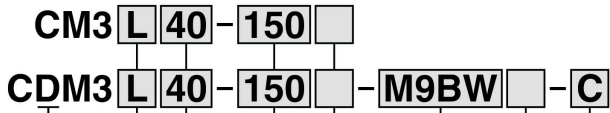
CM3 Series

ø20, ø25, ø32, ø40

RoHS

How to Order

With auto switch



B	Basic
L	Foot
F	Rod flange
G	Head flange
C	Single clevis
D	Double clevis
U	Rod trunnion

With auto switch (Built-in magnet)

Mounting

T	Head trunnion
E	Integrated clevis
BZ	Boss-cut/Basic
FZ	Boss-cut/Rod flange
UZ	Boss-cut/Rod trunnion

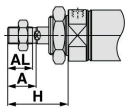
Bore size

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

Rod end thread

NII	Male thread
F	Female thread
G	Long male rod end*

* G: Same rod end dimensions (A, AL, H) as CM2 series.



Auto switch mounting bracket (Note)

Note) This symbol is indicated when the D-A9□ or M9□ type auto switch is specified. This mounting bracket does not apply to other auto switches (D-C□ and H7□, etc.) (Nil)

Number of auto switches

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

Auto switch

NII	Without auto switch
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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) CDM3F32-100

Cylinder stroke (mm)

Refer to the next page for standard strokes.

Applicable Auto Switches

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

Type	Special function	Electrical entry	Indicator	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)		IC circuit	Relay, PLC		
Solid state auto switch	—	Grommet	No	3-wire (NPN)	5 V, 12 V	—	M9NV	M9N	●	●	●	○	—	○	IC circuit			
				3-wire (PNP)			M9PV	M9P	●	●	●	○	—	○				
		Connector	Yes	2-wire	5 V, 12 V	—	M9BV	M9B	●	●	●	○	—	○	—			
				3-wire (NPN)			—	H7C	●	●	●	○	—	○				
	Diagnostic indication (2-color indicator)	Grommet	No	2-wire	24 V	—	—	G39A	—	—	—	●	—	—	IC circuit			
				3-wire (NPN)			—	K39A	—	—	—	●	—	—				
		Water resistant (2-color indicator)	Grommet	Yes	3-wire (NPN)	5 V, 12 V	—	M9NVW	M9NW	●	●	●	○	—	○	IC circuit	Relay, PLC	
					3-wire (PNP)			M9PVW	M9PW	●	●	●	○	—	○			
			Diagnostic output (2-color indicator)	Grommet	No	2-wire	12 V	—	M9BVW	M9BW	●	●	●	○	—	○	—	
						3-wire (NPN)			M9NAV ^{*1}	M9NA ^{*1}	○	○	●	○	—	○		
				3-wire (PNP)	5 V, 12 V	—	M9PAV ^{*1}	M9PA ^{*1}	○	○	●	○	—	○	—			
				2-wire			—	M9BA ^{*1}	○	○	○	○	—	○				
Reed auto switch	—	Grommet	Yes	3-wire (Equiv. to NPN)	—	5 V	—	A96V	A96	●	—	●	—	—	IC circuit	—		
				Connector				No	2-wire	24 V	12 V	—	100 V	A93V ^{*2}			A93	●
		100 V or less	A90V		A90	●	●						●	—	—			
		100 V, 200 V	—		B54	●	—						●	—	—			
		200 V or less	—		B64	●	—						●	—	—			
		Terminal conduit	Yes	No	2-wire	24 V	—	24 V or less	—	C73C	●	—	●	—	—	IC circuit		
								—	—	C80C	●	—	●	—	—			
		DIN terminal	Yes	No	2-wire	24 V	—	100 V, 200 V	—	A33A	—	—	—	●	—	—	Relay, PLC	
								—	—	A34A	—	—	—	●	—			
		Diagnostic indication (2-color indicator)	Grommet	Yes	No	2-wire	24 V	—	100 V, 200 V	—	A44A	—	—	—	●	—	—	Relay, PLC
—	—								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.

*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) M9NWL
 5 m Z (Example) M9NZ
 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□/A44/A/G39A/K39A types.
 * The D-G39A/K39A cannot be mounted on the bore size ø20.

* Since there are other applicable auto switches than listed above, refer to page 286 for details.
 * For details about auto switches with pre-wired connector, refer to pages 1648 and 1649.
 * The D-A9□(V), M9□(V), M9□W(V), M9□A(V) type auto switches are shipped together, (but not assembled). (However, auto switch mounting brackets are assembled when being shipped.)



- CJ1
- CJP
- CJ2
- JCM
- CM2
- CM3
- CG1
- CG3
- JMB
- MB
- MB1
- CA2
- CS1
- CS2

D-□

-X□

Technical Data