

# Fine Lock Cylinder

## Double Acting, Single Rod

# CLM2 Series

ø20, ø25, ø32, ø40

### How to Order

**CLM2**  **L**  **25**  - **100**  - **E**

**With auto switch** **CDLM2**  **L**  **25**  - **100**  - **E**  **M9BW**  - **C**

**With auto switch** (Built-in magnet)

**Type**

Nil	Pneumatic
H	Air-hydro

**Port thread type**

Nil	Rc
TN	NPT

**Mounting type**

<b>B</b> Basic type	<b>T</b> Head side trunnion type	<b>20</b> 20 mm
<b>L</b> Axial foot type	<b>E</b> Clevis integrated type	<b>25</b> 25 mm
<b>F</b> Rod side flange type	<b>BZ</b> Boss-cut basic type	<b>32</b> 32 mm
<b>G</b> Head side flange type	<b>FZ</b> Boss-cut flange type	<b>40</b> 40 mm
<b>C</b> Single clevis type		
<b>D</b> Double clevis type		

**Bore size**

**Cylinder stroke (mm)**

Refer to "Standard Stroke" on page 802.

**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-C7□ and H7□, etc.) (Nil)

**Number of auto switches**

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

**Auto switch**

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

**With rod boot**

Nil	None
J	Nylon tarpaulin
K	Heat resistant tarpaulin

**Lock operation**

<b>E</b>	Spring locking (Exhaust locking)
<b>P</b>	Pneumatic locking (Pressure locking)
<b>D</b>	Spring and pneumatic locking

**Made to Order**

Refer to page 802 for details.

### 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) CDLM2F32-100-P

### Applicable Auto Switches

Refer to pages 1119 to 1245 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	Terminal conduit	No	3-wire (NPN)	5 V, 12 V	—	—	M9NV	M9N	●	●	○	○	IC circuit	
				3-wire (PNP)	12 V			M9PV	M9P	●	●	○	○		
				2-wire	5 V, 12 V			M9BV	M9B	●	●	○	○		
				2-wire	12 V			H7C	—	●	●	○	○		
	Diagnostic indication (2-color indicator)	Grommet	Yes	3-wire (NPN)	5 V, 12 V	—	—	M9NVV	M9NV	●	●	○	○	IC circuit	
				3-wire (PNP)	12 V			M9PWW	M9PW	●	●	○	○		
				2-wire	5 V, 12 V			M9BWW	M9BW	●	●	○	○		
				2-wire	12 V			M9A V <sup>*1</sup>	M9NA <sup>*1</sup>	○	○	○	○		
	Water resistant (2-color indicator)	Grommet	Yes	3-wire (PNP)	5 V, 12 V	—	—	M9PA V <sup>*1</sup>	M9PA <sup>*1</sup>	○	○	○	○	IC circuit	
				2-wire	12 V			M9BA V <sup>*1</sup>	M9BA <sup>*1</sup>	○	○	○	○		
With diagnostic output (2-color indicator)	Grommet	Yes	4-wire (NPN)	5 V, 12 V	—	—	H7NF	—	●	●	○	○	IC circuit		
			4-wire (NPN equivalent)	5 V			A96V	A96	●	●	○	○			
Reed auto switch	Grommet	Terminal conduit	No	2-wire	24 V	—	—	A93V <sup>*2</sup>	A93	●	●	○	○	IC circuit	
								100 V	A90V	A90	●	●	○		○
								100 V or less	B54	●	●	○	○		
								100 V, 200 V	B64	●	●	○	○		
	Connector	Terminal conduit	No	2-wire	24 V	—	—	C73C	—	●	●	○	○	IC circuit	
								24 V or less	C80C	●	●	○	○		
								—	A33A	●	●	○	○		
								—	A34A	●	●	○	○		
	Diagnostic indication (2-color indicator)	Grommet	Yes	2-wire	100 V	—	—	A44A	—	●	●	○	○	IC circuit	
								100 V, 200 V	B59W	●	●	○	○		

\*1 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.

\*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) M9NZZ

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 D-A9□/A44□/G39□/K39□ models.

\* Since there are other applicable auto switches than listed above, refer to page 817 for details.

\* For details about auto switches with pre-wired connector, refer to pages 1192 and 1193.

\* D-A9□(V)/M9□(V)/M9□W(V)/M9□A(V) auto switches are shipped together (not assembled). (Only auto switch mounting brackets are assembled at the time of shipment.)

CLJ2

CLM2

CLG1

CL1

MLGC

CNG

MNB

CNA2

CNS

CLS

CLQ

RLQ

MLU

MLGP

ML1C

D-□

-X□