

Plate Cylinder with Lock

MLU Series

ø25, ø32, ø40, ø50

How to Order

MLU B 25 - 30 D - F -

With auto switch MDLU B 25 - 30 D - F - M9BW S -

With auto switch (Built-in magnet)

Mounting Type

B	Basic type
L	Axial foot type
F	Rod flange type
G	Head flange type
C	Single clevis type
D	Double clevis type

* Mounting brackets are shipped together (not assembled).

Size

25	Pressure receiving area equivalent to that of ø25 type
32	Pressure receiving area equivalent to that of ø32 type
40	Pressure receiving area equivalent to that of ø40 type
50	Pressure receiving area equivalent to that of ø50 type

Port thread type

Nil	M thread	ø25
	Rc	
TN	NPT	ø32, ø40, ø50
TF	G	

Cylinder stroke (mm)

Refer to "Standard Stroke" on page 1061.

Number of auto switches

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

Auto switch

Nil	Without auto switch
-----	---------------------

* For the applicable auto switch model, refer to the table below.

Locking direction

F	Extension locking
B	Retraction locking

Made to Order

For details, refer to page 1061.

Rod end shape

Nil	Rod end female thread
M	Rod end male thread

Action

D	Double acting
---	---------------

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) MDLU32-30D-B

Applicable Auto Switches

Refer to pages 1119 to 1245 for further information on auto switches.

Type	Special function	Electrical entry direction	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	No	3-wire (NPN)	5 V, 12 V	—	M9NV	M9N	●	●	○	—	○	IC circuit	Relay, PLC		
				3-wire (PNP)			M9PV	M9P	●	●	○	—	○				
		Connector	Yes	2-wire	12 V	—	M9BV	M9B	●	●	○	—	○	—			
				3-wire (NPN)	5 V, 12 V	—	J79C	—	●	—	●	—	—	—			
	Diagnostic indication (2-color indicator)	Grommet	Yes	3-wire (NPN)	5 V, 12 V	—	M9NWV	M9NW	●	●	○	—	○	IC circuit			
				3-wire (PNP)			M9PWW	M9PW	●	●	○	—	○	—			
		Water resistant (2-color indicator)	Grommet	Yes	2-wire	12 V	—	M9BWW	M9BW	●	●	○	—	○		—	
					3-wire (NPN)	5 V, 12 V	—	M9NAV**	M9NA**	○	○	○	○	—		○	IC circuit
	With diagnostic output (2-color indicator)	Grommet	Yes	3-wire (PNP)	5 V, 12 V	—	M9PAV**	M9PA**	○	○	○	○	—	○		IC circuit	
				2-wire			12 V	—	M9BAV**	M9BA**	○	○	○	○		—	○
Magnetic field resistant (2-color indicator)	Grommet	Yes	4-wire (NPN)	5 V, 12 V	—	—	F79F	●	—	●	—	—	○	IC circuit			
			2-wire (Non-polar)	—	—	—	P3DWA	●	—	●	—	—	○	—			
Reed auto switch	—	Grommet	Yes	3-wire (NPN equiv.)	24 V	12 V	—	A76H	●	—	●	—	—	—	IC circuit	Relay, PLC	
							—	200 V	A72	A72H	●	—	●	—	—		—
							—	100 V	A73	A73H	●	—	●	—	—		—
		Connector	No	2-wire	12 V	—	100 V or less	A80	A80H	●	—	●	—	—	—		IC circuit
							—	—	A73C	—	●	—	●	—	—		—
		Grommet	Yes	2-wire	12 V	—	—	A80C	—	●	—	●	—	—	—		IC circuit
							—	—	A79W	—	●	—	●	—	—		—

** 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.

* Lead wire length symbols: 0.5 m Nil (Example) M9NW
1 m M (Example) M9NWM
3 m L (Example) M9NWL
5 m Z (Example) M9NWZ
None N (Example) J79CN

* Solid state auto switches marked with a "O" are produced upon receipt of order.
* D-A9□/A9□ cannot be mounted.
* D-P4DW type can only be mounted on the types for tubing of ø40 and ø50.
Only D-P4DW is mounted when shipped.

* Besides the models in the above table, there are some other auto switches that are applicable. For more information, refer to page 1070.
* Refer to pages 1192 and 1193 for the details of auto switches with a pre-wired connector.