

Air Cylinder: With End Lock

MBB Series

ø32, ø40, ø50, ø63, ø80, ø100



How to Order



MBB L 32 - 50 - H N

With auto switch

MDBB L 32 - 50 - H N - M9BW

With auto switch
(Built-in magnet)

Mounting type

B	Basic/Without bracket
L	Axial foot
F	Rod flange
G	Head flange
C	Single clevis
D	Double clevis
T	Center trunnion

Bore size

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

Port thread type

Nil	Rc
TN	NPT
TF	G

Cylinder stroke [mm]

Refer to "Standard Strokes" on page 417.

Manual release

N	Non-locking
L	Locking

Made to Order
For details, refer to page 417.

Number of auto switches

Nil	2 pcs.
S	1 pc.
3	3 pcs.
n	"n" pcs.

Locking position

H	Locking at head end
R	Locking at rod end
W	Locking at both ends

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) MDBBB40-100

Applicable Auto Switches/Refer to pages 1575 to 1701 for further information on auto switches.

Type	Special function	Electrical entry	Indicate light	Wiring (Output)	Load voltage		Auto switch model		Lead wire length [m]				Pre-wired connector	Applicable load	
					DC	AC	Tie-rod mounting	Band mounting	0.5 (Nil)	1 (M)	3 (L)	5 (Z)			
															3-wire (NPN)
Solid state auto switch	—	Grommet	—	3-wire (NPN)	24 V	5 V, 12 V	—	M9N	●	●	●	○	○	IC circuit	
				3-wire (PNP)				M9P	●	●	●	○	○		
		2-wire	M9B	●	●	●	○	○							
		3-wire (NPN)	—	G39	—	—	—	—	—						
		2-wire			K39	—	—	—	—	—					
	Diagnostic indication (2-color indicator)	Terminal conduit	Yes	3-wire (NPN)	24 V	5 V, 12 V	—	M9NW	●	●	●	○	○	IC circuit	
				3-wire (PNP)				M9PW	●	●	●	○	○		
		2-wire	M9BW	●	●	●	○	○							
		Grommet	—	3-wire (NPN)	24 V	5 V, 12 V	—	M9NA*1	—	○	○	●	○		IC circuit
				3-wire (PNP)				M9PA*1	—	○	○	●	○		
2-wire	M9BA*1	—	○	○	●	○	○								
Diagnostic output (2-color indicator)	Grommet	—	4-wire (NPN)	24 V	5 V, 12 V	—	F59F	●	●	●	○	○	IC circuit		
			2-wire				P3DWA	●	●	●	○	○			
	Magnetic field resistant (2-color indicator)	Terminal conduit	Yes	3-wire (Equiv. to NPN)	—	5 V	—	A96	●	●	●	○		IC circuit	
								—	—	—	—	—			
Reed auto switch	—	Grommet	No	2-wire	24 V	12 V	—	100 V	A93	●	●	●	○	IC circuit	
								100 V or less	A90	●	●	●	○		
								100 V, 200 V	A54	●	●	●	○		
								200 V or less	A64	●	●	●	○		
								—	A33	—	—	—	—		
		Terminal conduit	Yes	—	2-wire	24 V	12 V	—	100 V, 200 V	A34	—	—	—	—	PLC
									—	A44	—	—	—	—	
									—	—	—	—	—	—	
									—	—	—	—	—	—	
									—	A59W	—	●	—	●	
DIN terminal	—	—	2-wire	24 V	12 V	—	—	—	—	—	—				
							—	—	—	—	—				
							—	—	—	—	—				
							—	—	—	—	—				
							—	—	—	—	—				
Diagnostic indication (2-color indicator)	Grommet	—	2-wire	24 V	12 V	—	—	—	—	—	—	Relay, PLC			
							—	—	—	—	—				

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

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

* Lead wire length symbols: 0.5 m Nil (Example) M9NW 3 m L (Example) M9NWL
1 m M (Example) M9NWM 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 above, refer to page 432 for details.

* The D-A9□/M9□/P3DWA□A auto switches are shipped together, (but not assembled). (However, auto switch mounting brackets are assembled for the D-A9□/M9□ before shipment.)