

Rotary Clamp Cylinder: Standard

MK Series

ø12, ø16, ø20, ø25, ø32, ø40, ø50, ø63

How to Order

MK B 20 - **10 R N Z** - **M9BW** -

Rotary clamp cylinder

Mounting bracket

Symbol	Mounting
B	Through-hole/Both ends tapped common (Basic)
F	Rod flange
G	Head flange

* Rod flange, head flanges are shipped together, (but not assembled).

Bore size

12	12 mm
16	16 mm
20	20 mm
25	25 mm
32	32 mm
40	40 mm
50	50 mm
63	63 mm

Port thread type

Nil	M thread	ø12 to ø25
	Rc	
TN	NPT	ø32 to ø63
TF	G	

Clamp stroke

Symbol	Clamp stroke	Applicable bore size
10	10 mm	ø12 to ø63
20	20 mm	
30	30 mm	
50	50 mm	ø32 to ø63

Made to Order
(Refer to page 404 for details.)

Auto switch type

Nil	2 pcs.
S	1 pc.

Auto switch type

Nil	Without auto switch (Built-in magnet)
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* For applicable auto switch models, refer to the below table.

* Auto switches are shipped together, (but not assembled).

Auto switch multiple side mounting

Body option

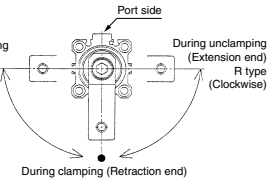
Nil	Standard (Female thread)
N	With arm

* Arms are shipped together, (but not assembled).

Rotary direction (Unclamp → Clamp)

R	Clockwise
L	Counterclockwise

During unclamping (Extension end)
L type (Counterclockwise)



Applicable Auto Switches/Refer to pages 1341 to 1435 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)	24 V	5 V, 12 V	—	M9NV	M9N	●	●	●	○	—	○	IC circuit	Relay, PLC
	3-wire (PNP)			M9PV				M9P	●	●	●	○	—	○			
	2-wire			M9BV				M9B	●	●	●	○	—	○			
	3-wire (NPN)			M9NVW				M9NW	●	●	●	○	—	○			
	Diagnostic indication (2-color indicator)			3-wire (PNP)				M9PWV	M9PW	●	●	●	○	—	○	IC circuit	
	Water resistant (2-color indicator)			2-wire				M9BWV	M9BW	●	●	●	○	—	○	—	
				3-wire (NPN)				M9NAV ^{*1}	M9NA ^{*1}	○	○	●	○	—	○	IC circuit	
				3-wire (PNP)				M9PAV ^{*1}	M9PA ^{*1}	○	○	●	○	—	○	—	
Magnetic field resistant (2-color indicator)		2-wire	M9BAV ^{*1}	M9BA ^{*1}	○	○	●	○	—	○	—						
	2-wire (Non-polar)	—	—	P3DWA [*]	●	—	●	●	—	●	—						
	Reed auto switch	Grommet	Yes	3-wire (NPN equivalent)	—	5 V	—	A96V	A96	●	—	●	—	—	—	IC circuit	—
No				2-wire	24 V	12 V	100 V	A93V ^{*2}	A93	●	●	●	—	—	—	—	Relay, PLC
						5 V, 12 V	100 V or less	A90V	A90	●	—	●	—	—	—	IC circuit	

*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) M9NWX

* Solid state auto switches marked with "○" are produced upon receipt of order.
* For D-P3DWA□, ø32 to ø63 are available.

* Since there are other applicable auto switches than listed, refer to page 414 for details.

* For details about auto switches with pre-wired connector, refer to pages 1410 and 1411.

* Auto switches are shipped together, (but not assembled).