

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

Symbol	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

Symbol	Port thread type	Applicable bore size
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

Auto switch type

Symbol	Auto switch type
Nil	2 pcs.
S	1 pc.

Auto switch type

Symbol	Auto switch type
Nil	Without auto switch (Built-in magnet)

* 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

Symbol	Body option
Nil	Standard (Female thread)
N	With arm

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

Rotary clamp direction (Unclamp → Clamp)

Symbol	Rotary clamp direction
R	Clockwise
L	Counterclockwise

During unclamping (Extension end)
L type (Counterclockwise)

During unclamping (Extension end)
R type (Clockwise)

During clamping (Retraction end)

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	—	—	M9NV	M9N	●	●	●	○	○	IC circuit
				3-wire (PNP)				M9PV	M9P	●	●	○	○		
				2-wire				M9BV	M9B	●	●	●	○	○	
				3-wire (NPN)				M9NVV	M9NW	●	●	●	○	○	
				3-wire (PNP)				M9PWW	M9PW	●	●	○	○	○	
				2-wire				M9BWW	M9BW	●	●	○	○	○	
	Diagnostic indication (2-color indicator)	Grommet	Yes	3-wire (NPN)	24 V	—	—	M9NAV*1	M9NA*1	○	○	●	○	○	IC circuit
				3-wire (PNP)				M9PAV*1	M9PA*1	○	○	●	○	○	
				2-wire				M9BAV*1	M9BA*1	○	○	●	○	○	
				2-wire (Non-polar)				—	P3DWA*	●	—	●	—	●	
Water resistant (2-color indicator)	Grommet	Yes	3-wire (NPN)	24 V	—	—	A96V	A96	●	—	●	—	—	IC circuit	
			2-wire				A93V*2	A93	●	●	●	—	—		
Magnetic field resistant (2-color indicator)	Grommet	No	3-wire (NPN equivalent)	24 V	—	—	A90V	A90	●	—	●	—	—	IC circuit	
			2-wire				A90V	A90	●	—	●	—	—		

*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) M9NWZ

* 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).