

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
	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

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).

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)

During unclamping (Extension end)
R type (Clockwise)

During clamping (Retraction end)

MK

MK2T

CK□1

CLK2

CLKG

CKO

CLK□

CK□

CK□

Applicable Auto Switches/Refer to pages 941 to 1067 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	Diagnostic indication (2-color indicator)	Grommet	Yes	3-wire (NPN)	24 V	—	—	M9NV	M9N	●	●	●	○	—	○	IC circuit
				3-wire (PNP)				M9PV	M9P	●	●	●	○	—	○	
				2-wire				M9BV	M9B	●	●	●	○	—	○	
				3-wire (NPN)				M9NVV	M9NV	●	●	●	○	—	○	
				3-wire (PNP)				M9PVV	M9PW	●	●	●	○	—	○	
				2-wire				M9BVV	M9B	●	●	●	○	—	○	
	Water resistant (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 *	●	—	●	●	—	●	
Reed auto switch	Grommet	Yes	3-wire (NPN equivalent)	24 V	—	—	A96V	A96	●	—	—	—	—	—	IC circuit	
			12 V				A93V *2	A93	●	●	●	●	—	—		
			5 V, 12 V				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) M9NV
1 m M (Example) M9NVM
3 m L (Example) M9NVL
5 m Z (Example) M9NVZ

* 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 400 for details.

* For details about auto switches with pre-wired connector, refer to pages 1014 and 1015.

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

D-□

-X□