

# 180° Angular Type Air Gripper Rack & Pinion Type

# MHW2 Series

ø20, ø25, ø32, ø40, ø50

## How to Order

**MHW2 - 20 [ ] D 1 - M9BW [ ] - [ ]**

**Number of fingers**  
2 2 fingers

**Bore size**

20	20 mm
25	25 mm
32	32 mm
40	40 mm
50	50 mm

**Port thread type**

Symbol	Type	Size
Nil	M thread	ø20, ø25
	Rc	ø32
TN	NPT	ø40
TF	G	ø50

**Action**  
D Double acting

**Made to Order**  
Refer to page 712 for details.

**Number of auto switches**

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

**Auto switch**

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

**Finger option**

Nil: Flat type fingers (Standard) 1: Right angle type fingers tapped mounting

## Applicable Auto Switches / Refer to pages 797 to 850 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	Electrical entry direction		0.5 (Nil)	1 (M)	3 (L)	5 (Z)		
							Perpendicular	In-line						
Solid state auto switch	—	Grommet	Yes	3-wire(NPN)	5 V, 12 V	—	M9NV	M9N	●	●	●	○	○	IC circuit
				3-wire(PNP)			M9PV	M9P	●	●	●	○	○	
				2-wire	M9BV	M9B	●	●	●	○	○	○	—	
				3-wire(NPN)	M9NVW	M9NW	●	●	●	○	○			
				3-wire(PNP)	M9PVW	M9PW	●	●	●	○	○	IC circuit		
				2-wire	M9BWW	M9BW	●	●	●	○	○			
	Water resistant (2-color indicator)	Grommet	Yes	3-wire(NPN)	5 V, 12 V	—	M9NAV**	M9NA**	○	○	●	○	○	IC circuit
				3-wire(PNP)			M9PAV**	M9PA**	○	○	●	○	○	
				2-wire	M9BAV**	M9BA**	○	○	●	○	○	—		
				3-wire(NPN)	M9NVW	M9NW	●	●	●	○	○			
				3-wire(PNP)	M9PVW	M9PW	●	●	●	○	○	IC circuit		
				2-wire	M9BWW	M9BW	●	●	●	○	○			

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

\* Lead wire length symbols: 0.5 m ..... Nil (Example) M9NV  
1 m ..... M (Example) M9NVW  
3 m ..... L (Example) M9NVL  
5 m ..... Z (Example) M9NVZ

\* Auto switches marked with a "○" symbol are produced upon receipt of order.

Note 1) When using the 2-color indicator type, please make the setting so that the indicator is lit in red to ensure the detection at the proper position of the air gripper.

Note 2) When ordering the air gripper with the auto switch, the auto switch mounting bracket is included.  
When ordering the auto switch separately, the auto switch mounting bracket (BMG2-012) is required.