

# Parallel Type Air Gripper/3-Finger Type Long Stroke

# MHSL3 Series

ø16, ø20, ø25, ø32, ø40, ø50, ø63, ø80, ø100, ø125

## How to Order

### Bore size

ø16 to ø25 **MHSL3 - 20 D - M9BW**         

**Number of fingers**  
3 3 fingers

**Bore size**  
16 16 mm  
20 20 mm  
25 25 mm

**Action**  
D Double acting

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

**Number of auto switches**  
Nil 2 pcs.  
S 1 pc.

**Made to Order**  
Refer to page 619 for details.

### 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	Perpendicular	In-line	0.5 (Nil)	1 (M)	3 (L)			5 (Z)	
Solid state auto switch	—	Grommet	Yes	3-wire (NPN)	24 V	—	M9NV	M9N	●	●	○	○	IC circuit	Relay, PLC	
				3-wire (PNP)			M9PV	M9P	●	●	○	○			
				2-wire			M9BV	M9B	●	●	○	○			
				3-wire (NPN)			M9NVW	M9NW	●	●	○	○			IC circuit
				3-wire (PNP)			M9PVW	M9PW	●	●	○	○			
				2-wire			M9BWW	M9BW	●	●	○	○			
	Diagnosis (2-color indicator)	Grommet	Yes	3-wire (NPN)	24 V	—	M9NAV**	M9NA**	○	○	●	○	IC circuit		
				3-wire (PNP)			M9PAV**	M9PA**	○	○	●	○			
				2-wire			M9BAV**	M9BA**	○	○	●	○	—		
				3-wire (NPN)			M9NAV**	M9NA**	○	○	●	○			
				3-wire (PNP)											M9PAV**
				2-wire			M9BAV**	M9BA**	○	○	●	○			

\*\* 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) M9NVW  
1 m ..... M (Example) M9NVW1  
3 m ..... L (Example) M9NVWL  
5 m ..... Z (Example) M9NVWZ

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

Note) 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.

### Bore size

ø32 to ø125 **MHSL3 - 50**    **D - M9BW**      

**Number of fingers**  
3 3 fingers

**Bore size**  
32 32 mm  
40 40 mm  
50 50 mm  
63 63 mm  
80 80 mm  
100 100 mm  
125 125 mm

**Action**  
D Double acting

**Port thread type**

Symbol	Type	Cylinder bore
Nil	M thread	ø32 to ø63
	Rc	
TN	NPT	ø80 to ø125
TF	G	

**Number of auto switch**  
Nil 2 pcs.  
S 1 pc.  
n "n" pcs.

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

**Made to Order**  
Refer to page 619 for details.

### 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	Perpendicular	In-line	0.5 (Nil)	1 (M)	3 (L)			5 (Z)	
Solid state auto switch	—	Grommet	Yes	3-wire (NPN)	24 V	—	M9NV	M9N	●	●	○	○	IC circuit	Relay, PLC	
				3-wire (PNP)			M9PV	M9P	●	●	○	○			
				2-wire			M9BV	M9B	●	●	○	○			
				3-wire (NPN)			M9NVW	M9NW	●	●	○	○			IC circuit
				3-wire (PNP)			M9PVW	M9PW	●	●	○	○			
				2-wire			M9BWW	M9BW	●	●	○	○			
	Diagnosis (2-color indicator)	Grommet	Yes	3-wire (NPN)	24 V	—	M9NAV**	M9NA**	○	○	●	○	IC circuit		
				3-wire (PNP)			M9PAV**	M9PA**	○	○	●	○			
				2-wire			M9BAV**	M9BA**	○	○	●	○	—		
				3-wire (NPN)			M9NAV**	M9NA**	○	○	●	○			
				3-wire (PNP)											M9PAV**
				2-wire			M9BAV**	M9BA**	○	○	●	○			

\*\* 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) M9NVW  
1 m ..... M (Example) M9NVW1  
3 m ..... L (Example) M9NVWL  
5 m ..... Z (Example) M9NVWZ

\* 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 auto switch, auto switch mounting brackets are supplied with the air gripper having a bore size of ø32 to ø125.

Note 3) When ordering the air switch separately, auto switch mounting brackets (BMG2-012) are required.