

Solid State Auto Switch: Short Type

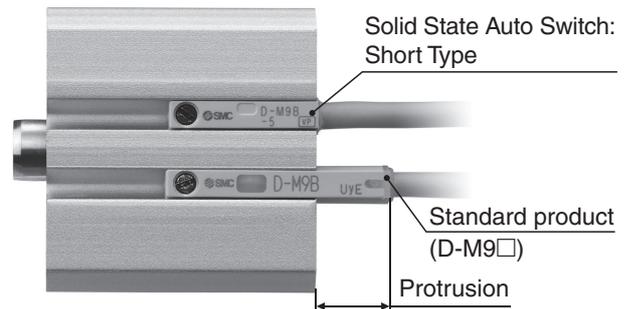


Overall length reduced by **32 %**

22 mm → 15 mm

Protrusion from the actuator end surface has been reduced.

Specifications are the same as those of the standard product (D-M9□).



How to Order

D-M9 **B** **L** - **5**

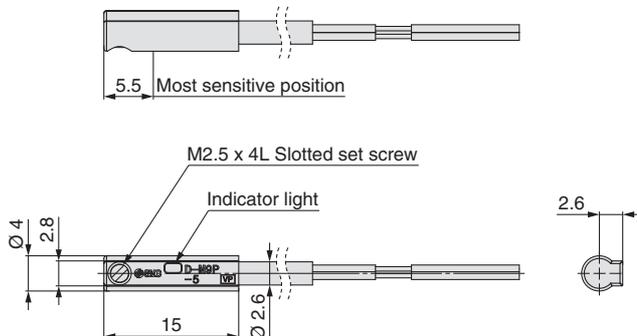
Wiring/Output type

B	2-wire
N	3-wire, NPN
P	3-wire, PNP

Lead wire length

—	0.5 m
M	1 m
L	3 m
Z	5 m

Dimensions



Specifications

Auto switch model	D-M9N□-5	D-M9P□-5	D-M9B□-5
Wiring type	3-wire		2-wire
Output type	NPN	PNP	—
Applicable load	IC circuit, Relay, PLC		24 VDC relay, PLC
Power supply voltage	5, 12, 24 VDC (4.5 to 28 V)		—
Current consumption	10 mA or less		—
Load voltage	28 VDC or less	—	24 VDC (10 to 28 VDC)
Load current	40 mA or less		2.5 to 40 mA
Internal voltage drop	0.8 V or less at 10 mA (2 V or less at 40 mA)		4 V or less
Leakage current	100 μA or less at 24 VDC		0.8 mA or less
Indicator light	Red LED lights up when turned ON.		
Standards	CE marking, RoHS		

Oilproof Heavy-duty Lead Wire Specifications

Auto switch model	D-M9N□-5	D-M9P□-5	D-M9B□-5
Sheath	Outside diameter [mm]	Ø 2.6	
Insulator	Number of cores	3 cores (Brown/Blue/Black)	
	Outside diameter [mm]	Ø 0.88	
Conductor	Effective area [mm ²]	0.15	
	Strand diameter [mm]	Ø 0.05	
Min. bending radius [mm] (Reference value)		17	

Weight

Auto switch model	D-M9N□-5	D-M9P□-5	D-M9B□-5
Lead wire length	0.5 m (—)	7	6
	1 m (M)	13	11
	3 m (L)	35	31
	5 m (Z)	57	51

D-M9□-5

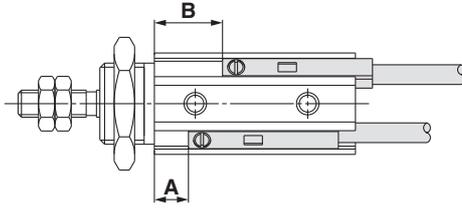


17-EU683-UK

D-M9□-5

Auto Switch Proper Mounting Position (Detection at stroke end)

■ The A and B dimensions are equivalent to the dimensions of the standard product (D-M9□) + 0.5 mm.



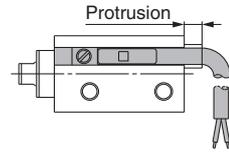
■ Actuators in which the protrusion from the body end surface can be eliminated by mounting the D-M9□-5

Description	Series	Note
Air Cylinder	CJP2	
Mini Free Mount Cylinder	CUJ	Excludes Ø 6, Ø 8, Ø 10, and Ø 12 (See right side.)
Free Mount Cylinder	CU	
Compact Cylinder	CQS	
Compact Cylinder: Guide Rod Type	CQM	
Compact Slide	MXH	Excludes Ø 6 (See right side.)
Air Slide Table	MXJ	
Platform Cylinder	CXT	
Dual Rod Cylinder	CXSJ	Excludes Ø 6 and Ø 10 (See right side.)
Rotary Clamp Cylinder	MK	
Escapements	MI□	
Parallel Type Air Gripper	MHZ2	Excludes Ø 6 (See right side.)
Parallel Type Air Gripper	MHZJ2	Excludes Ø 6 and Ø 10 (See right side.)
Parallel Type Air Gripper	MHZL2	Excludes Ø 10 (See right side.)
Low Profile Air Gripper	MHF2	
Parallel Type Air Gripper	MHS□	Excludes the center pusher (cylinder type) (See right side.)
Angular Type Air Gripper	MHC2	Excludes Ø 6 and Ø 10 (See right side.)
180° Angular Type Air Gripper: Cam Type	MHY2	
180° Angular Type Air Gripper: Rack & Pinion Type	MHW2	Excludes Ø 20 and Ø 25 (See right side.)

■ Protrusion from the body end surface

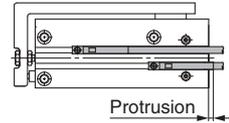
Mini Free Mount Cylinder [mm]

Model	Bore size	Protrusion
CUJ	6	0.5
	8	0.5
	10	0.5
	12	0.5



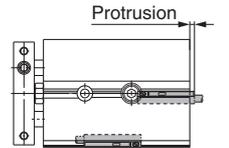
Compact Slide [mm]

Model	Bore size	Protrusion
MXH	6	1



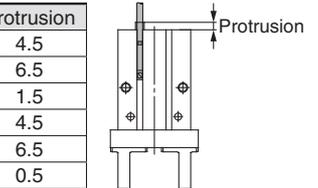
Dual Rod Cylinder [mm]

Model	Bore size	Protrusion
CXSJ	6	3
	10	0.5



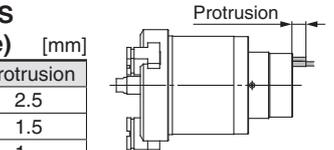
Parallel Type Air Gripper [mm]

Model	Bore size	Finger position	Protrusion
MHZ2	6	Open	4.5
		Closed	6.5
MHZL2	10	Closed	1.5
		Open	4.5
MHZJ2	6	Closed	6.5
		Open	0.5



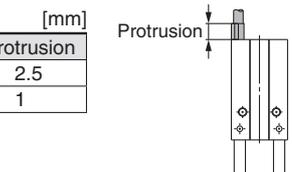
Parallel Type Air Gripper: MHS Center Pusher (Cylinder Type) [mm]

Model	Bore size	Rod position	Protrusion
MHSH3	32	Retracted	2.5
	40	Retracted	1.5
	50	Retracted	1
	60	Retracted	0.5



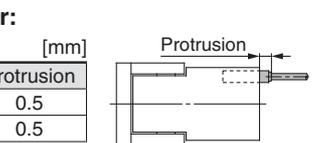
Angular Type Air Gripper [mm]

Model	Bore size	Finger position	Protrusion
MHC2	6	Closed	2.5
		Open	1



180° Angular Type Air Gripper: Rack & Pinion Type [mm]

Model	Bore size	Finger position	Protrusion
MHW2	20	Closed	0.5
		Open	0.5



* Adjust the auto switch after confirming the operating conditions in the actual setting.

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