Solid State Auto Switch: Short Type

Produced upon receipt of order RoHS

- 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□).







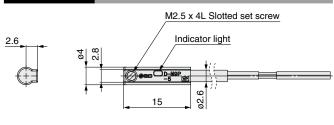
D-M9BL-5

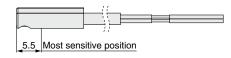
Wirin	g/Output type
В	2-wire
Ν	3-wire, NPN
Р	3-wire, PNP

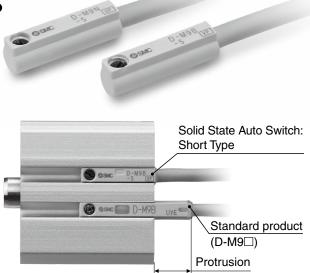
D-M9□-5

•Lead wire length		
Nil	0.5 m	
М	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-w	/ire	2-wire
Output type	NPN	PNP	—
Applicable load	IC circuit, I	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 les	0.8 mA or less	
Indicator light	Red LED lights up when turned ON.		
Standards	CE/UKCA marking		

Oilproof Heavy-duty Lead Wire Specifications

onproof ficary daty Lead while opeometations				
Auto s	witch model	D-M9N□-5 D-M9P□-5 D-M9B□-5		
Sheath	Outside diameter [mm]	ø2.6		
Insulator	Number of cores	3 cores (Brow	/n/Blue/Black)	2 cores (Brown/Blue)
Insulator	Outside diameter [mm]		ø0.88	
Conductor	Effective area [mm ²]	0.15 ø0.05		
Conductor	Strand diameter [mm]			
	ing radius [mm] rence value)	1] 17		

Weight

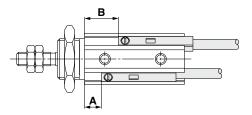
				[g]
Auto s	witch model	D-M9N□-5	D-M9P□-5	D-M9B□-5
	0.5 m (Nil)		7	6
Lead wire	1 m (M)	1	3	11
length	3 m (L)	3	35	31
longu	5 m (Z)	5	57	51



*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

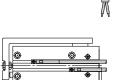
Description	Series	Note			
Air Cylinder	CJP2				
Mini Free Mount Cylinder	CUJ	Excludes ø6, ø8, ø10, and ø12 (See right side.)			
Free Mount Cylinder	CU				
Compact Cylinder	CQS				
Compact Cylinder: Guide Rod Type	CQM				
Compact Slide	MXH	Excludes ø6 (See right side.)			
Air Slide Table	MXJ				
Platform Cylinder	CXT				
Dual Rod Cylinder	CXSJ	Excludes ø6 and ø10 (See right side.)			
Rotary Clamp Cylinder	MK				
Escapements	MI				
Compact Type Parallel Style Air Gripper	JMHZ2	Excludes ø8 and ø12 (See right side.)			
Parallel Type Air Gripper	MHZ2	Excludes ø6 (See right side.)			
Parallel Type Air Gripper	MHZJ2	Excludes ø6 and ø10 (See right side.)			
Parallel Type Air Gripper	MHZL2	Excludes ø10 (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 ø6 and ø10 (See right side.)			
180° Angular Type Air	MHY2				
Gripper: Cam Type					
180° Angular Type Air Gripper: Rack & Pinion Type	MHW2	Excludes ø20 and ø25 (See right side.)			

Protrusion from the body end surface

Mini Free Mount Cylinder [mm]

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

Compact Slide		[mm]
Model Bore size		Protrusion
MXH	6	1



Protrusion

Protrusion

0

0

Dual Rod Cylinder [mm]			
Bore size	Protrusion		
6	3		
10	0.5		
	Bore size 6		

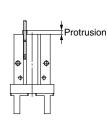
Protrusion

[mm]

[mm]

Parallel Type Air Gripper

Model	Bore size	Finger position	Protrusion
JMHZ2	8	Closed	1
	12	Closed	1
MHZ2	6	Open	4.5
		Closed	6.5
MHZL2	10	Closed	1.5
MHZJ2 6 10	Open	4.5	
	o	Closed	6.5
	10	Closed	0.5



Parallel Type Air Gripper: MHS

Center	Center Pusher (Cylinder Type) [mm				
Model	Bore size	Rod position	Protrusion		
мнѕнз	32	Retracted	2.5		
	40	Retracted	1.5		
พ่กอกจ	50	Retracted	1		
	60	Retracted	0.5		

Angular Type Air Gripper

Model	Bore size	Finger position	Protrusion
MHC2	6	Closed	2.5
MINC2	10	Closed	1

Protrusion

180° Angular Type Air Gripper:

Rack & Pinion Type				[mm]
	Model	Bore size	Finger position	Protrusion
	MHW2	20	Closed	0.5
		25	Closed	0.5

Protrusion

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

A Safety Instructions Be sure to read the "Handling Precautions for SMC Products" (M-E03-3) and "Operation Manual" before use.

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