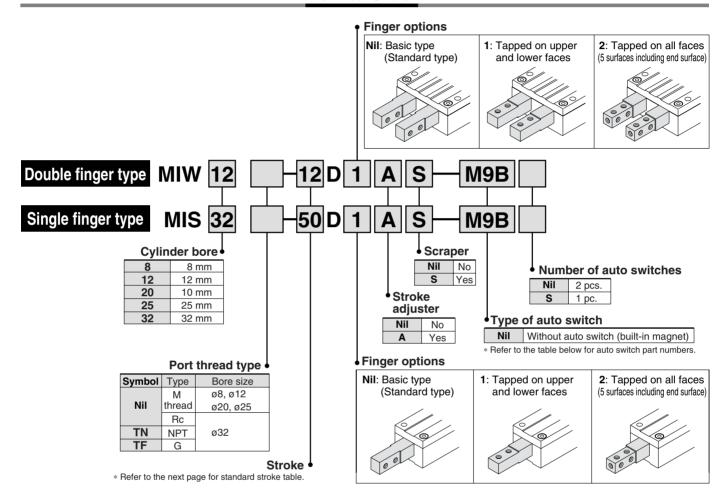
Escapements

Series MIW/MIS

ø8, ø12, ø20, ø25, ø32

How to Order



Applicable auto switches/Refer to pages 14 to 18 for detailed specifications of auto switches.

	Special function		, p ,	\A/:	Load voltage		Auto switch model		Lead wire length (m)		n (m)	Applicable		
Type		Electrical entry	ndicator light	Wiring (output)		DC	AC			0.5	3	5	Appii	
		,	Ě	(Perpendicular	In-line	(Nil)	(L)	(Z)		
te switch				3-wire (NPN)			F9NV	M9N	•	•	0	IC circuit		
	_	Cuammat		(PNP) 2-wire			F9PV	М9Р	•	•	0	IC Circuit		
					12 V	_	F9BV	М9В	•	•	0	_	Relay	
Solid state	Diagnostic	Gionnie		24 V	5 V, 12 V		F9NWV	F9NW	•	•	0	IC circuit	PLC	
	Diagnostic indication (2-color display)	on				5 V, 12 V		F9PWV	F9PW	•	•	0	io dicuit	
	(= 23.23 diopins)			2-wire		12 V		F9BWV	F9BW	•	•	0	_	

* Lead wire length symbols: 0.5 m·····Nil (Example) M9N

3 m····· L (Example) M9NL

5 m····· Z (Example) M9NZ

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

Made to order specifications Contact SMC.

- −50 Without indicator light
- -61 Flexible lead wire
 Pre-wire connector



Escapements Series MIW/MIS

Specifications



Series	MIW (Double finger)	MIS (Single finger)	
Fluid	Air		
Operating pressure	0.2 to 0.7MPa		
Ambient temperature and fluid temperature	−10 to 60°C (No freezing)		
Lubrication	Non-lube		
Action	Double a	acting	
Auto switch (optional) Note)	Solid state switch (3-wire, 2-wire)		
Stroke tolerance	⁺¹ ₀ mm		

Note) Refer to pages 14 through 18 for auto switch specification.

Option

Finger options	Standard, Tapped on upper and lower faces, Tapped on all faces (5 surfaces including end surface)			
	MI□8: Arrangement range 4 mm			
Stroke adjuster	MI□12: Arrangement range 6 mm			
(Rear end	MI□20: Arrangement range 12 mm			
stroke only)	MI□25: Arrangement range 15 mm			
	MI□32: Arrangement range 20 mm			
Scraper	Can be mounted on standard products			

Theoretical Output

									Unit: N
Bore size	Rod size	Operating	Piston area			Operating p	ressure MPa		
(mm)	(mm)	direction	(mm ²)	0.2	0.3	0.4	0.5	0.6	0.7
8	4	OUT	50	10	15	20	26	31	36
	4	IN	38	7	11	15	19	23	26
12	6	OUT	113	23	34	45	57	68	79
12	· ·	IN	85	17	26	34	43	51	60
20	10	OUT	314	63	94	126	157	188	220
20		IN	236	47	71	94	118	142	165
25	10	OUT	491	98	147	196	245	295	344
25	10	IN	412	82	124	165	206	247	288
32	12	OUT	804	161	241	322	402	482	563
32	12	IN	691	138	207	276	346	415	484

Standard Stroke

Double finger type/MIW (
Bore size	Stroke				
8	8 mm				
12	12 mm				
20	20 mm				
25	25 mm				
32	32 mm				

 $[\]ast$ For MIW, same stroke as bore size

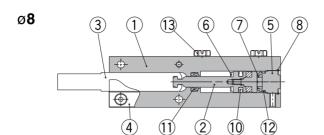
Single finger type/MIS				
Bore size	Stroke			
8	10, 20 mm			
12	10, 20, 30 mm			
20	10, 20, 30 mm			
25	30, 50 mm			
32	30, 50 mm			

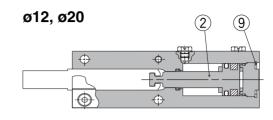
Weight

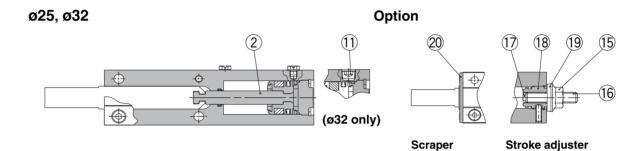
Unit: g								
Model	Model	Stroke (mm)	Weight (g)	Increase by stroke adjuster	Increase by scraper			
	MIW8-8D	8	110	6	3			
	MIW12-12D	12	240	10	5			
MIW	MIW20-20D	20	650	30	10			
	MIS25-25D	25	1550	30	20			
	MIS32-32D	32	2650	100	35			
	MIS8-10D	10	62	3	2			
	MIS8-20D	20	80	3	2			
	MIS12-10D	10	130					
	MIS12-20D	20	160	5	3			
	MIS12-30D	30	190					
MIS	MIS20-10D	10	300					
	MIS20-20D	20	355	15	5			
	MIS20-30D	30	410					
	MIS25-30D	30	800	15	10			
	MIS25-50D	50	1000	15	10			
	MIS32-30D	30	1350	50	18			
	MIS32-50D	50	1650	50	10			
	6							



Construction/Single Finger Type (MIS)







Component parts

No.	Description	Material	Note
1	Body	Aluminium alloy	Hard anodized
2	Piston assembly		
3	Finger	Carbon steel	Heat treatment/Special treatment
4	Cover	Aluminium alloy	Hard anodized
5	Cap (S)	Aluminium alloy	White anodized
6	Bumper	Urethane rubber	
7	Head bumper	Urethane rubber	
8	Clip	Carbon steel	(MIS8)
9	R shape snap ring	Carbon steel	(MIS12 to 32)

No.	Description	Material	Note
10	Piston seal	NBR	
11	Rod seal	NBR	
12	Gasket	NBR	
13	Dive		(MIW8 ··· M-3P)
13	Plug		(MIW12 to 25 ··· M-5P)
14	Hexagon socket taper plug		(MIW32 ··· Rc1/8)

Option: adjuster

No.	Description	Material	Note
15	Hexagon nut with flange	Carbon steel	Nickel plated
16	Adjustment bolt	Carbon steel	Nickel plated
17	Adjustment bumper	Urethane rubber	
18	Adjustment cap	Aluminium alloy	White anodized
19	Die thread	NBR	

Option: scraper

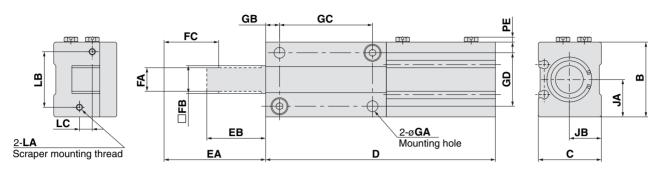
No.	Description	Material	Note
20	Scraper	Stainless steel + NBR	

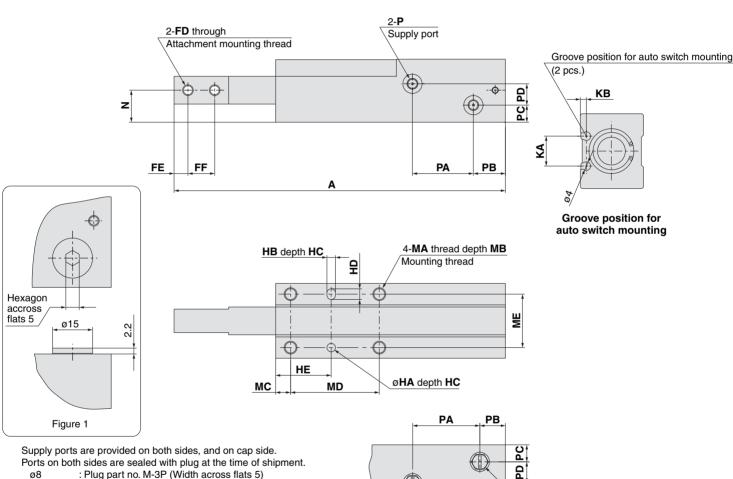
Replacement parts

Description		Finger		Cool leit	Caranaraaaanhh	Cuasas mask
Model	Standard	Tapped on upper and lower faces	Tapped on all faces	Seal kit	Scraper assembly	Grease pack
MIS8-10D	MI-A0801-10	MI-A0802-10	MI-A0803-10	MIS8-PS	MIS-A0804	
MIS8-20D	MI-A0801-20	MI-A0802-20	MI-A0803-20	W1150-F5	WIIS-A0004	
MIS12-10D	MI-A1201-10	MI-A1202-10	MI-A1203-10			
MIS12-20D	MI-A1201-20	MI-A1202-20	MI-A1203-20	MIS12-PS	MIS-A1204	MH-G01 (contents quantity
MIS12-30D	MI-A1201-30	MI-A1202-30	MI-A1203-30			
MIS20-10D	MI-A2001-10	MI-A2002-10	MI-A2003-10			
MIS20-20D	MI-A2001-20	MI-A2002-20	MI-A2003-20	MIS20-PS	MIS-A2004	
MIS20-30D	MI-A2001-30	MI-A2002-30	MI-A2003-30			30 g)
MIS25-30D	MI-A2501-30	MI-A2502-30	MI-A2503-30	MIS25-PS	MIS-A2504	
MIS25-50D	MI-A2501-50	MI-A2502-50	MI-A2503-50	WII325-F3	WII3-A2504	
MIS32-30D	MI-A3201-30	MI-A3202-30	MI-A3203-30	MIS32-PS	MIS-A3204	
MIS32-50D	MI-A3201-50	MI-A3202-50	MI-A3203-50	IVII332-PS	IVII3-A3204	
Main parts No.		③ (1 pc.)		(10, (1), (12)	20	

Dimensions/Single Finger Type

MIS□-□D





Ø8 : Plug part no. M-3P (Width across flats 5)Ø12 to Ø25: Plug part no. M-5P (Width across flats 7)

ø32 : Hexagon socket head taper plug (Width across flats 5)

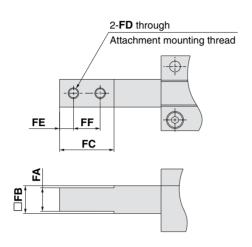
* Refer to the Figure 1 for G thread

Model Α В С D EΑ EB FΑ FΒ FC FD FE FF FG GA GB GC GD HA, HB 6 (Effective depth 2.5) MIS8-10 87 59 28 20 19 16 18 6-0.1 7h9 -0.036 2.6 2H9 +0.025 15 M3 x 0.5 4 7 4 13 79 38 MIS8-20 117 30 MIS12-10 72 33 105 28 6 (Effective depth 3) 92 43 2.5H9 +0.025 MIS12-20 135 26 21 23 8.0.1 19 M3 x 0.5 4.5 3.3 38 9.5 5 18 MIS12-30 112 53 48 165 MIS20-10 86.5 38.5 32 125 10 (Effective depth 4) 13h9 .0.043 4H9 +0.030 35 MIS20-20 155 29.5 106.5 48.5 28.5 11.0.1 25.5 M5 x 0.8 6.5 12.5 5.1 7 42 25 MIS20-30 126.5 58.5 52 185 MIS25-30 144 71 55 215 (Effective depth 7) 40 41 15.0.1 17h9 0.043 37 M6 x 1 10 17 6.8 10 5H9 +0.030 184 91 MIS25-50 270 75 17 (Effective depth 8.5) MIS32-30 250 165 85 64 6H9^{+0.030} 21h9 ⁰_{-0.052} 50 47 55 19.5.0.1 51 M8 x 1.25 12.5 22 8.6 12 34 MIS32-50 310 205 105 84

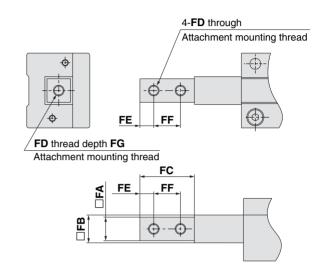
Supply port

Escapements Series MIW/MIS

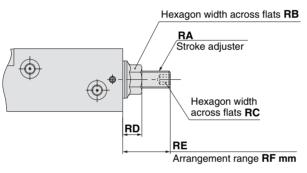
Finger options Tapped on upper and lower faces



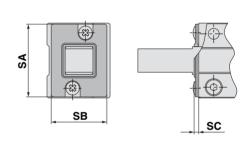
Tapped on all faces



With adjuster



With scraper



Note) Observe the specified adjustment range when adjusting with a stroke adjuster.

Model	НС	HD	HE	JA	JB	KA	KB	LA	LB	LC	MA	MB	MC	MD	ME	N	Р	PA	PB	PC
MIS8-10	2	3	14	9.5	7.5	6.2	1.6	M2 x 0.4	14	3	M3 x 0.5	5	1	20	13	7.5	M3 x 0.5	19	8	4.5
MIS8-20		3	14	9.5	7.5	0.2	1.0	WIZ X U.4	14	٥	IVIS X U.S	3	4	30	13	7.5	WIS X 0.5	29	0	4.5
MIS12-10														28				19		
MIS12-20	4	3.5	17.5	13	11	11.6	2.2	M2.6 x 0.45	19	4	M4 x 0.7	7	5	38	18	11	M5 x 0.8	29	10	6
MIS12-30														48				39		
MIS20-10														32				20.5		
MIS20-20	5	5	26	17.5	15	14	2.8	M3 x 0.5	26	6	M6 x 1	10	7	42	25	15	M5 x 0.8	30.5	12	8
MIS20-30														52				40.5		
MIS25-30	5	7	32	20.5	20	11	3	M3 x 0.5	32	10	M8 x 1.25	14	10	55	28	20	M5 x 0.8	47	1.4	12
MIS25-50	3	′	32	20.5	20	11	3	IVIO X U.S	32	10	IVIO X 1.25	14	10	75	20	20	IVIS X U.6	67	14	12
MIS32-30		,	40	25	25	20.4	0.5	Mayoz	20	10	M10 v 1 F	15	10	64	24	O.E.	Do1/0	47	115	11
MIS32-50	6	8	40	25	23	20.4	2.5	M4 x 0.7	39	12	M10 x 1.5	15	12	84	34	25	Rc1/8	67	14.5	11

Model	PD	PE	RA	RB	RC	RD	RE	RF	RG	SA	SB	SC
MIS8-10	6	2.2	M4 x 0.7	7	2	5.7	12.5	4	8.5	18.6	14	1.4
MIS8-20	0	2.2	W4 X U.7	,		3.7	12.5	†	0.5	10.0	1	1.4
MIS12-10												
MIS12-20	7	2.8	M5 x 0.8	8	2.5	6	14	6	8	24	18	1.8
MIS12-30												
MIS20-10												
MIS20-20	10	2.7	M8 x 1	12	4	9	22.5	12	10.5	34	26	2.2
MIS20-30												
MIS25-30	14	2.7	M8 x 1	12	4	9	26	15	11	40	36	2.8
MIS25-50	14	2.1	IVIO X I	12	4	9	20	15	11	40	30	2.0
MIS32-30	27		M12 x 1.25	17	6	10.4	22	20	10	40	41	2.4
MIS32-50	27		IVI 12 X 1.25	17	0	12.4	33	20	13	49	41	3.4

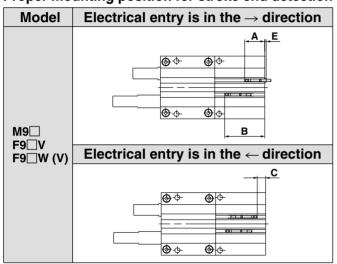
Auto Switch Mounting

When mounting an auto switch, insert the switch in the switch mounting groove on the escapement from the direction as below figure. Having set the mounting position, tighten the attached switch mounting screws with a flat head watchmakers screw driver.

* When adjusting the auto switch mounting screws, use a watchmakers screw driver with a handle 5 to 6 mm in diamterer. (This is to prevent fracture due to an excessive torque.) The guideline of the tightening torque is 0.05 to 0.1 Nm. Turn another 90° from the position where tightening is felt by hand.

Watchmakers screw driver ø5 to ø6 Auto switch mounting screw M2.5 x 4 Auto switch

Proper mounting position for stroke end detection



Auto Switch Operating Range

MIW/MIS (mm)								
Auto switch model	ø 8	ø 12	ø 20	ø 25	ø 32			
D-M9 □	2	2	2.5	3.5	4.5			
D-F9□W (V) D-F9□V	2.5	3	3.5	5	5.5			

Note) The operating ranges are provided as guidelines including hysteresis and are not guaranteed values (with ±30% variations). Hysteresis may fluctuate due to the operating environments.

												(mm)		
		Proper mou	nting position			Proper mou	nting	position			Proper mour	nting position		
Model		D-M9□ D-F9□V		Model	Model		D-F9	9□V	Model		D-M9□	D-F9□V		
		D-F9□W	D-F9□WV			D-F9□W	D-F9	9□WV			D-F9□W	D-F9□WV		
	Α	16	6.5		Α	A 18.5			Α	7	.5			
	В	2	25		В	4	.9				38			
MIW8-8D	С	4	.5	MIS12-30D	C	6	.5		MIS25-30D	С	21			
	D	-	_		D	-				D	-			
	Ε	6	4		E	3.5		1.5		Е	_	_		
	Α		3.5		Α).5			Α		.5		
	В	_	27		В	-	-1			В	_	88		
MIS8-10D	С	4	.5	MIW20-20D	С	8	.5		MIS25-50D	С	2	!1		
	D	-	_		D	-				D	-			
	E	6	4		E	4		2		Ε		_		
	Α		5.5		A	-).5			A B		.5		
MICO OOD	В		37	MICOO 10D	В		1		MINNOO OOD			1		
MIS8-20D	C	4	.5	MIS20-10D	C	8	.5		MIW32-32D	C	2	!9		
	D	-	_		D				-	D	_	_		
	E A	6	4 3.5		E A	4).5	2		E		.5		
	В		3.5 31		В).5 51			A B		.5 19		
MIW12-12D	С		.5	MIS20-20D	C	_	.5		MIS32-30D	С	_	.9		
IVII VV 12-12D	D	-	_	W11320-20D	D				WII332-30D	D		_		
	E	3.5	1.5		E	4	Ι	2		E	_	_		
	A		3.5		A	· ·).5	_		A	8	.5		
	В		29		В		1			В		i9		
MIS12-10D	С	6	.5	MIS20-30D	C 8.5		.5		MIS32-50D	С	2	.9		
	D	-	_	O20-00B	D	-				D	_	_		
	Ε	3.5	1.5		Е	4		2		Е	_	_		
	Α	18	3.5		Α	7	.5							
	В	3	39		В	3	3							
MIS12-20D	С	6	.5	MIW25-25D	С	2	1							

D

3.5

1.5

Auto Switch Common Specifications

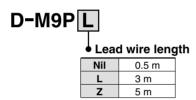
Auto Switch Common Specifications

Туре	Solid state switch
Operating time	1 ms or less
Impact resistance	1000 m/s²
Insulation resistance	50 ${ m M}\Omega$ or more at 500 mega VDC (between lead wire and case)
Withstand voltage	1000 VAC for 1min. (between lead wire and case)
Ambient temperature	−10 to 60°C
Enclosure	IEC529 standard IP67 JISC0920 watertight construction

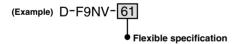
Lead Wire Length

Lead wire length indication

(Example)



- Note 1) Lead wire length Z: Auto switch applicable to 5m length Solid state switches: All models produced upon receipt of order (standard procedure).
- Note 2) The water resistant 2-color solid state switch uses a 3 m lead wire as standard. (0.5 m is not available.)
- Note 3) For solid state with flexible wire specification, add "-61" after the lead wire length.
- Note 4) D-M9 type use flexible wire as standard.



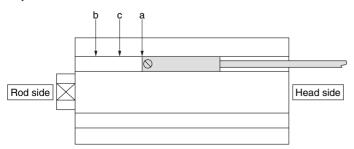
How to Mount Auto Switch

Point "a" is the ON position when moving switch from head side of the cylinder.

Point "b" is the ON position when moving switch from rod side of the cylinder

Point "c", center of point "a" and "b", is the proper mounting position.

* If switch is mounted in the center between ON position and OFF position, the switch will not be on the proper position due to the hysteresis.



Lead Wire Color Change

Lead wire colors of SMC auto switches have been changed as shown in the tables below starting from production in September 1996, in order to meet the IEC947-5-2 standard.

Take special care regarding wire polarity during the time when the old colors still coexist with the new colors.

2-wire

		Old	New
Output	(+)	Red	Brown
Output	(-) E	Black	Blue
			•

3-wire

	Old	New
Power supply +	Red	Brown
Power supply GND	Black	Blue
Output	White	Black

Solid state with diagnostic output

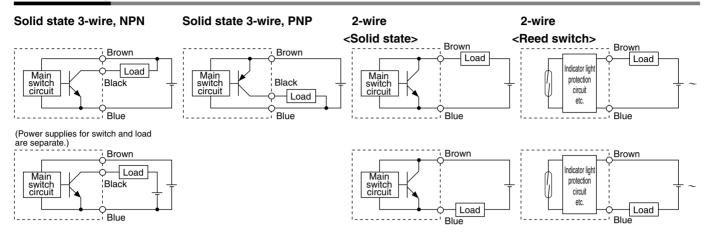
	Old	New
Power supply +	Red	Brown
Power supply GND	Black	Blue
Output	White	Black
Diagnostic output	Yellow	Orange

Solid state with latch type diagnostic output

	Old	New
Power supply +	Red	Brown
Power supply GND	Black	Blue
Output	White	Black
Latch type diagnostic output	Yellow	Orange

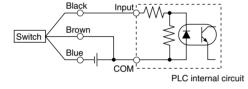
Auto Switch Connections and Examples

Basic Wiring

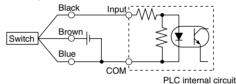


Examples of Connection to PLC

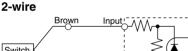
· Sink input specification 3-wire, NPN

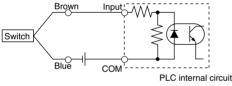


 Source input specification 3-wire, PNP

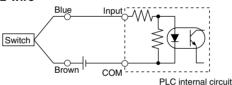


Connect according to the applicable PLC input specifications, as the connection method will depending on the PLC input specifications.





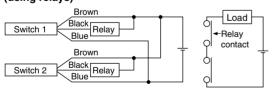
2-wire



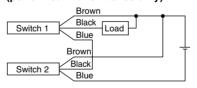
Connection Examples for AND (Series) OR (Parallel)

3-wire

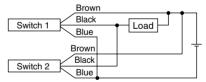
AND connection for NPN output (using relays)



AND connection for NPN output (performed with switches only)

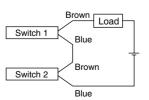


OR connection for NPN output



The indicator lights will light up when both switches are turned ON.

2-wire with 2 switch AND connection

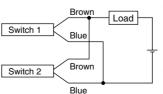


When two switches are connected in series, a load may malfunction because the load voltage will drop when in the ON state. The indicator lights will light up if both of the switches are in the ON state.

Load voltage at ON =
$$\begin{array}{c} Power \ supply \\ voltage \end{array}$$
 — $\begin{array}{c} Internal \\ voltage \\ drop \end{array}$ x 2 pcs. = 16 V

Example: Power supply is 24 VDC Internal voltage drop in switch is 4 V

2-wire with 2 switch OR connection



<Solid state switch> When two switches are connected in parallel, malfunction may occur because the load voltage will increase when in the OFF state.

Leakage x 2 pcs. x Load impedance Load voltage at OFF = = 1 mA x 2 pcs. x $3 \text{ k}\Omega$ = 6 V

Example: Load impedance is $3 k\Omega$ Leakage current from switch is 1 mA <Reed switch>

Because there is no current leakage, the load voltage will not increase when turned OFF. However, depending on the number of switches in the ON state, the indicator lights may sometimes get dark or not light up, because of dispersion and reduction of the current flowing to the switches.



Solid State Auto Switches/Direct Mount Type D-M9N, D-M9P, D-M9B ()

Auto Switch Specifications



Refer to www.smcworld.com for details of products compatible with overseas standards.

Grommet

- 2-wire load current is reduced (2.5 to 40 mA).
- Lead-free
- Use of lead wire compliant with UL standards (style 2844)



PLC: Programable Logic Controller

D-M9□ (with indic	D-M9□ (with indicator light)								
Auto switch model	D-M9N	D-M9N D-M9P							
Wiring type	3-w	2-wire							
Output type	NPN	PNP	_						
Applicable load	IC circuit, F	24 VDC relay, PLC							
Power supply voltage	5, 12, 24 VDC	_							
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 d	or less	4 V or less						
Leakage current	100 μA or les	0.8 mA or less							
Indicator light	R								

● Lead wire ······ Oil proof heavy duty vinyl cable: 2.7 x 3.2 ellipse

D-M9B 0.15 mm² x 2 cores

D-M9N, D-M9P 0.15 mm² x 3 cores

Note 1) Refer to page 14 for auto switch common specifications.

Note 2) Refer to page 14 for lead wire lengths.

∆ Caution

Operating Precautions

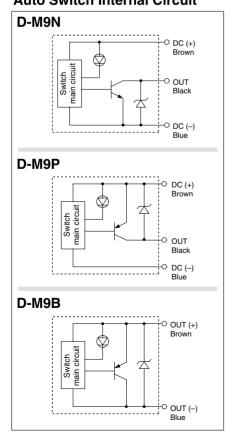
When the cable sheath is stripped, confirm the stripping direction.

The insulator may be split or damaged depending on the direction.





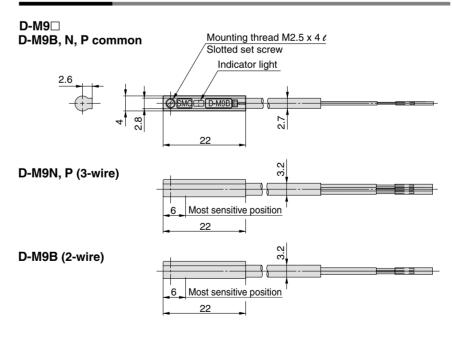
Auto Switch Internal Circuit



Weight

Auto switch mode	el	D-M9N	D-M9P	D-M9B
	0.5	8	8	7
Lead wire length	3	41	41	38
(m)	5	68	68	63

Dimensions





Unit: g

Solid State Auto Switches/Direct Mount Type



Refer to www.smcworld.com for details of products compatible with overseas standards.

Grommet



∆Caution

Operating Precautions

Be sure to use the attached fixing screws to secure the auto switch.

Use of screws beyond the specified range can damage the switch.

Auto Switch Specifications

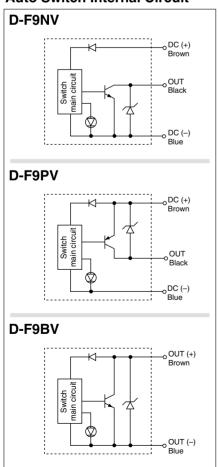
		PLC: Pro	gramable Logic Controller						
D-F9□V (with in	D-F9⊡V (with indicator light)								
Auto switch model	D-F9NV	D-F9PV	D-F9BV						
Electrical direction	Perpendicular	Perpendicular	Perpendicular						
Wiring type	3-w	ire	2-wire						
Output type	NPN	PNP	_						
Applicable load	IC circuit,	24 VDC relay, PLC							
Power supply voltage	5, 12, 24VD	_							
Current consumption	10 m	A or less	_						
Load voltage	28 VDC or less	_	24 VDC (10 to 28 VDC)						
Load current	40 mA or less	80 mA or less	5 to 40 mA						
Internal voltage drop	1.5 V or less (0.8 V or less at 10 mA load current)	(0.8 V or less at 0.8 V or less							
Leakage current	100 μA or les	0.8 mA or less							
Indicator light		Red LED lights when ON							

● Lead wire ······ Oil proof heavy duty vinyl cable, ø2.7, 3 cores (brown, black, blue), 0.15 mm², 2 cores (brown, blue), 0.18 mm², 0.5 m

Note 1) Refer to page 14 for solid state switch common specifications.

Note 2) Refer to page 14 for lead wire lengths.

Auto Switch Internal Circuit



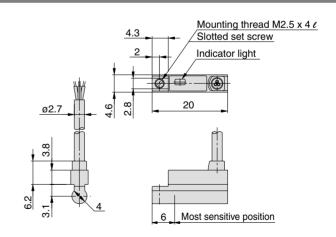
17

Weight Unit: g

Auto switch model		D-F9NV	D-F9PV	D-F9BV
Lead wire length (m)	0.5	7	7	6
	3	37	37	31
(***)	5	61	61	51

Dimensions

D-F9□V



2-Color Display Solid State Auto Switches/ Direct Mount Type D-F9NW(V), D-F9PW(V), D-F9BW(V) ()

Auto Switch Specifications

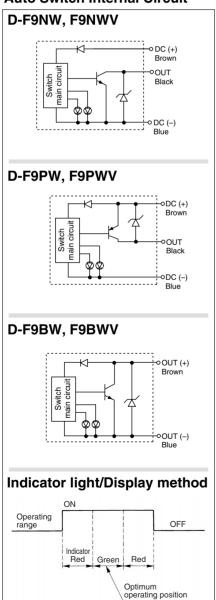


Refer to www.smcworld.com for details of products compatible with overseas standards.

Grommet



Auto Switch Internal Circuit



	PLC: Programable Logic Controll							
D-F9□W, D-F9□WV (with indicator light)								
Auto switch model	D-F9NW	D-F9NWV	D-F9PW	D-F9PWV	D-F9BW	D-F9BWV		
Electrical entry direction	In-line	Perpendicular	In-line	Perpendicular	In-line	Perpendicular		
Wiring type	3-wire				2-wire			
Output type	NPN		PNP		_			
Applicable load	IC circuit, Relay IC, 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 V)			
Load current	40 mA or less		80 mA or less		5 to 40 mA			
Internal voltage drop	1.5 V or less (0.8 V or less at 10 mA load current)		0.8 V or less		4 V or less			
Leakage current	100 μA or less at 24 VDC			0.8 mA or less				

 Lead wire ······ Oil proof heavy duty vinyl cable, ø2.7, 3 cores (brown, black, blue), 0.15 mm², 2 cores (brown, blue), 0.18 mm², 0.5 m

Operating position · · · · · Red LED lights up

Optimum operating position · · · Green LED lights up

Note 1) Refer to page 14 for solid state switch common specifications.

Note 2) Refer to page 14 for lead wire length.

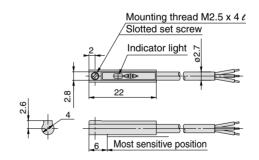
Weight Unit: g

Auto switch model		D-F9NW(V)	D-F9PW(V)	D-F9BW(V)
Lead wire length (m)	0.5	7	7	7
	3	34	34	32
	5	56	56	52

Dimensions

D-F9□W

Indicator light



D-F9□WV

