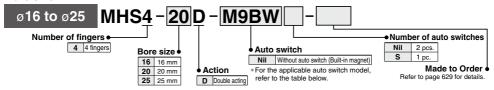
Parallel Type Air Gripper/4-Finger Type MHS4 Series Ø16, Ø20, Ø25, Ø32, Ø40, Ø50, Ø63

How to Order

Bore size



Applicable Auto Switches/Refer to pages 797 to 850 for further information on auto switches.

Ŧ	Special	Electrical	Indicator	Wiring	Lo	ad volta	age	Auto swit	ch model	Lead wire	e len	gth ((m)*	Pre-wired	Appli	cable
Type	function	entry	light	(Output)	D	С	AC	Perpendicular	In-line	0.5 (Nil)	1 (M)	3 (L)	5 (Z)	connector	loa	ad
듄				3-wire (NPN)		5 V,		M9NV	M9N	•	•	•	0	0	IC	
€	_			3-wire (PNP)		12 V		M9PV	M9P	•	•	•	0	0	circuit	
S				2-wire		12V		M9BV	M9B	•	•	•	0	0	-	
울	Diagnosis	Grommet	Yes	3-wire (NPN)		5 V,	1	M9NWV	M9NW	•	•	•	0	0	IC	Relav.
<u>a</u>	(2-color	Gionninet	ies	3-wire (PNP)	24 V	12 V	_	M9PWV	M9PW	•	•	•	0	0	circuit	PLC
state	indicator)			2-wire	1	12 V	1	M9BWV	M9BW	•	•	•	0	0	_	FLC
				3-wire (NPN)		5 V,	1	M9NAV**	M9NA**	0	0	•	0	0	IC	
흗	Water resistant (2-color indicator)			3-wire (PNP)	1	12 V		M9PAV**	M9PA**	0	0	•	0	0	circuit	
So	(2-color indicator)			2-wire		12 V		M9BAV**	M9BA**	0	0	•	0	0	_	

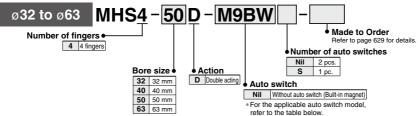
Water resistant type auto switches can be mounted on the above models, but in such case SMC cannot guarantee water resistance * Lead wire length symbols: 0.5 m Nil (Example) M9NW * Auto switches marked with a "O" symbol are produced upon receipt of order.

- 1 m M (Example) M9NWM

 - 3 m ······ L (Example) M9NWL 5 m ···· Z (Example) M9NWZ

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



Annlicable Auto Switches/Refer to pages 797 to 850 for further information on auto switches.

Time	Special	Electrical	Indicator	Wiring	Lo	oad volta	age	Auto swit	ch model	Lead wire	e len	gth (m)*	Pre-wired	Appli	icable
Туре	function	entry	light	(Output)	D	С	AC	Perpendicular	In-line	0.5 (Nil)	1 (M)	3 (L)	5 (Z)	connector	lo	ad
ڃ				3-wire (NPN)		5 V,		M9NV	M9N	•		•	0	0	IC	
switch	_			3-wire (PNP)		12 V		M9PV	M9P	•	•	•	0	0	circuit	
S				2-wire		12 V		M9BV	M9B	•	•	•	0	0	_	
욕	Diagnosis	Grommet	Yes	3-wire (NPN)		5 V,		M9NWV	M9NW	•		•	0	0	IC	D. I.
<u></u>	(2-color	Grommet	res	3-wire (PNP)	24 V	12 V	_	M9PWV	M9PW	•	•	•	0	0	circuit	Relay, PLC
state	indicator)			2-wire		12 V		M9BWV	M9BW	•	•	•	0	0	_	FLC
		1		3-wire (NPN)		5 V,		M9NAV**	M9NA**	0	0	•	0	0	IC	
ള	Water resistant (2-color indicator)			3-wire (PNP)		12 V		M9PAV**	M9PA**	0	0	•	0	0	circuit	
တိ	(2-color indicator)			2-wire		12 V		M9BAV**	M9BA**	0	0	•	0	0	_	

^{**} 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) M9NW * Auto switches marked with a "O" symbol are produced upon receipt of order. 1 m M (Example) M9NWM

3 m L (Example) M9NWL 5 m Z (Example) M9NWZ

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 auto switch separately, auto switch mounting brackets (BMG2-012) are required.



Parallel Type Air Gripper/4-Finger Type MHS4 Series

Models/Specifications



Mode	ı	MHS4-16D	MHS4-20D	MHS4-25D	MHS4-32D	MHS4-40D	MHS4-50D	MHS4-63D				
Cylinder bore si	ze (mm)	16	20	25	32	40	50	63				
Fluid					Air							
Operating press	ure (MPa)		0.2 to 0.6			0.1 t	0 0.6					
Ambient and fluid temp	perature (°C)				-10 to 60							
Repeatability	(mm)	±0.01										
Max. operating freque	ncy (c.p.m.)	120 60										
Lubrication		Not required										
Action					Double acting							
Effective gripping	External grip	10	19	31	55	88	140	251				
force (N) at 0.5 MPa Note 1)	Internal grip	12	21	35	61	97	153	268				
Opening/Closing s	troke (mm)	4	4	6	8	8	12	16				
Weight (g)		66	110	154	300	390	590	1,095				

Note 1) Values for ø16 to ø25 are with gripping point L = 20 mm, for ø32 to ø63 with gripping point L = 30 mm. Refer to "Effective Gripping Force" data on pages 631 and 632 for the gripping force at each gripping position.

Symbol

Double acting: Internal grip Double acting: External grip







Symbol	Specifications/Description
-X4	Heat resistance (100°C)
-X5	Fluororubber seal
-X50	Without magnet
-X53	EPDM seal/Fluorine grease
-X56	Axial ported
-X63	Fluorine grease
-X79	Grease for food processing machines, Fluorine grease
-X79A	Grease for food processing machines

Refer to pages 636 to 643 for the specifications of products with auto switches.

- Auto switch installation examples and mounting positions
- Auto switch hysteresis
- · Auto switch mounting
- Protrusion of auto switch from edge of body

MHZ

MHL

MHR

MHK

MHS

MHT

МНҮ

MHW

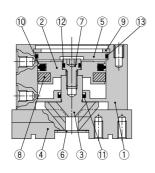
-X□ MRHQ

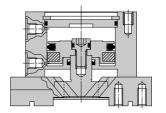
MA

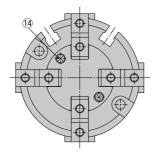
Construction

Closed condition

Open condition







Component Parts

No.	Description	Material	Note
1	Body	Aluminum alloy	Hard anodized
2	Piston	Aluminum alloy	Hard anodized
3	Cam	Carbon steel	Heat treated, Specially treated
4	Finger	Carbon steel	Heat treated, Specially treated
5	Сар	Aluminum alloy	Hard anodized
6	End plate	Stainless steel	
7	Piston bolt	Stainless steel	

No.	Description	Material	Note
8	Magnet	_	
9	Type C retaining ring	Carbon steel	Phosphate coated
10	Piston seal	NBR	
11	Rod seal	NBR	
12	Gasket	NBR	
13	Gasket	NBR	
14	Cross recessed flat head screw	Carbon steel	Zinc chromated

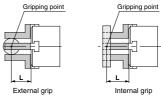
Replacement Parts

Description	MHS4-16D	MHS4-20D	MHS4-25D	MHS4-32D	MHS4-40D	MHS4-50D	MHS4-63D	Main parts
Seal kit	MHS16-PS	MHS20-PS	MHS25-PS	MHS32-PS	MHS40-PS	MHS50-PS	MHS63-PS	10(1)(2(13)
Finger	P3316004	P3316104	P3316204	P3316304	P3316404	P3316504	P3316604	4
Cam	P3316043	P3316143	P3316243	P3316343	P3316443	P3316543	P3316643	3
Piston assembly	MHS-A1601	MHS-A2001	MHS-A2501	MHS-A3201	MHS-A4001	MHS-A5001	MHS-A6301	278
End plate assembly	MHS-A1613-4	MHS-A2013-4	MHS-A2513-4	MHS-A3213-4	MHS-A4013-4	MHS-A5013-4	MHS-A6313-4	614
Сар	MHS-A1614	MHS-A2014	MHS-A2514	MHS-A3214	MHS-A4014	MHS-A5014	MHS-A6314	(5)

* Order 4 pieces of fingers for one unit. Replacement part/Grease pack part no.: MH-G01 (30 g)

Gripping Point

- The workpiece gripping point distance should be within the gripping force ranges given for each pressure in the effective gripping force graphs below.
- If operated with the workpiece gripping point beyond the indicated ranges, an excessive offset load will be applied to the sliding section of the fingers, which can have an adverse effect on the service life of the product.

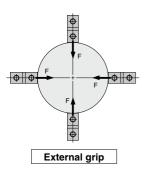


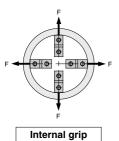
L: Gripping point distance

Effective Gripping Force

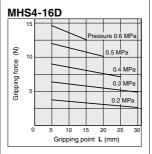
Indication of effective gripping force
 The gripping force shown in the tables represents the gripping force of one finger when all fingers and attachments are in contact with the workpiece. The gripping force of MHS4 series is the same as MHS2 series while one pair of opposite fingers is used to grip the workpiece and the other pair of

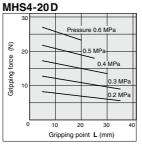
fingers is used for positioning.

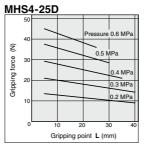




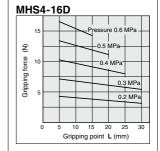
External Gripping Force

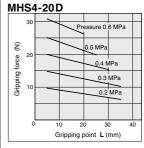


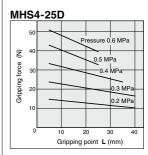




Internal Gripping Force







MHZ MHF MHL

MHR MHK

MHS

MHT

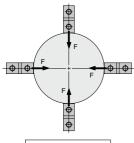
MHW -X□

MRHQ MA

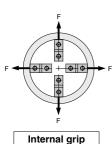
MHS4 Series

Effective Gripping Force

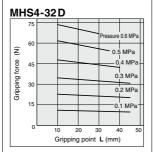
Indication of effective gripping force
 The gripping force shown in the tables
 represents the gripping force of one finger
 when all fingers and attachments are in
 contact with the workpiece. The gripping force
 of MHS4 series is the same as MHS2 series
 while one pair of opposite fingers is used to
 grip the workpiece and the other pair of
 fingers is used for positioning.



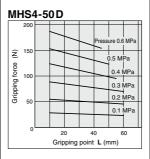
External grip

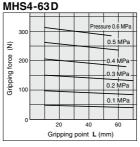


External Gripping Force

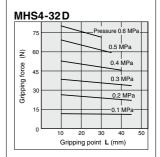


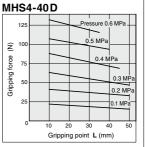
MHS4-40 D 125 100 0.5 MPa 0.4 MPa 0.3 MPa 0.3 MPa 0.3 MPa 0.3 MPa 0.1 MPa 0.5 MPa 0.5 MPa 0.6 MPa 0.7 MPa 0.8 MPa 0.9 MPa

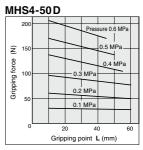


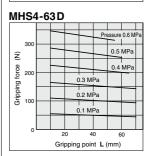


Internal Gripping Force

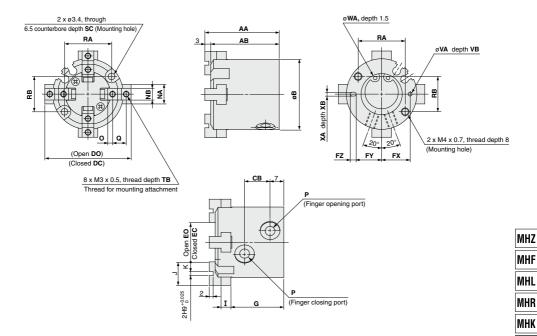






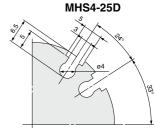


MHS4-16D to 25D



Auto switch mounting groove dimensions (2 locations)

MHS4-16D MHS4-20D



																				(mn
Model	AA	AB	В	СВ	DC	DO	EC	EO	FX	FY	FZ	G	I	J	K	NA	NB	0	P	Q
MHS4-16D	35	32	30	11	33	37	13	17	12.5	11	3	25	4	10	4	8	5h9 -0.030	2	M3 x 0.5	6
MHS4-20D	38	35	36	13	39	43	15	19	14.5	13	3	27	5	12	5	10	6h9 -0.030	2.5	M5 x 0.8	7
MHS4-25D	40	37	42	15	48	54	20	26	17	14.5	5	28	5	14	6	12	6h9 -0.030	3	M5 x 0.8	8
Model	RA	RB	sc	ТВ	V	Α	VB	WA	1	XA		ХВ								
					-				0.040	.00	OF.									

Model	RA	RB	SC	TB	VA	VB	WA	XA	XB
MHS4-16D	18	16	8	5	2H9+0.025	2	17H9 +0.043	2H9 +0.025	2
MHS4-20D	24	18	9.5	6	2H9 +0.025	2	21H9 +0.052	2H9 +0.025	2
MHS4-25D	26	22	10	6	3H9 +0.025	3	26H9 +0.052	3H9 +0.025	3

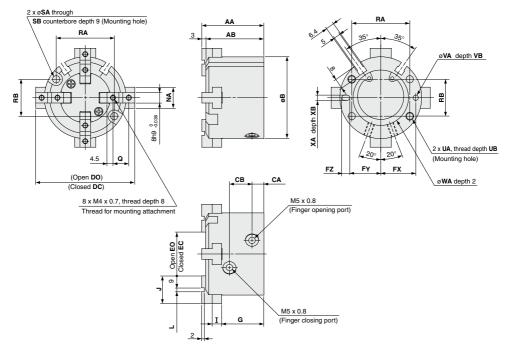
MHS

MHC

MHY MHW -X□

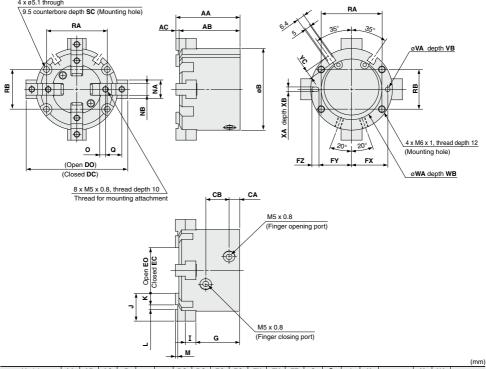
MRHQ MA D-

MHS4-32D/40D



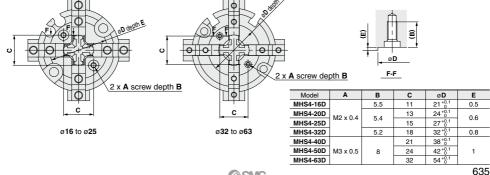
																					(mm)
Model	AA	AB	В	CA	СВ	DC	DO	EC	EO	FX	FY	FZ	G	I	J	L	NA	Q	RA	RB	SA
MHS4-32D	44	41	56	8	16	60	68	20	28	23	20.5	5	30.5	6	20	2H9 +0.025	14	11	38	25	4.5
MHS4-40D	47	44	62	9	17	66	74	24	32	26.5	23.5	6	32	7	21	3H9 +0.025	16	12	44	28	5.5
Model	SB	UA	4	UB	VA	VB	W	Ά	XA	1	(B										
MHS4-32D	8	M5 x	0.8	10	3H9 +0.025	3	34H9	+0.062	3H9 +0.	025	3										
MHS4-40D	9.5	M6 x	1	12	4H9 +0.030	4	42H9	+0.062	4H9 +0.	030	4										

MHS4-50D/63D



	Model	AA	AB	AC	В	CA	СВ	DC	DO	EC	EO	FX	FY	FZ	G	I	J	K	L	M	NA	NB
Ξ	MHS4-50D	55	52	3	70	9	20	74	86	26	38	31	28	6	37.5	9	24	10	4H9 +0.030	2	18	10h9 -0.036
	MHS4-63D	66	62	4	86	12	22	91	107	35	51	38	34.5	7	44	11	28	11	6H9 +0.030	3	24	12h9 _{-0.043}
-	Model	0	O	RA	RB	sc	V	Δ	VB	WA		wB	XA		(B \	/C						
-	MHS4-50D	-	1.4	52	34	12	4H9 +			52H9 +			4H9 +0.0		4 -	,						
_		5	14	52	34	_									4 /							
	MHS4-63D	5.5	17	66	38	14	5H9 +	0.030	5	65H9 +	0.074	25	5H9 +0.0	30	5 7	7.5						

MHS4 Series Detailed Dimensions of Mounting Portion of End Plate



MHZ

MHF MHL MHR MHK

MHS

MHC MHT MHY MHW

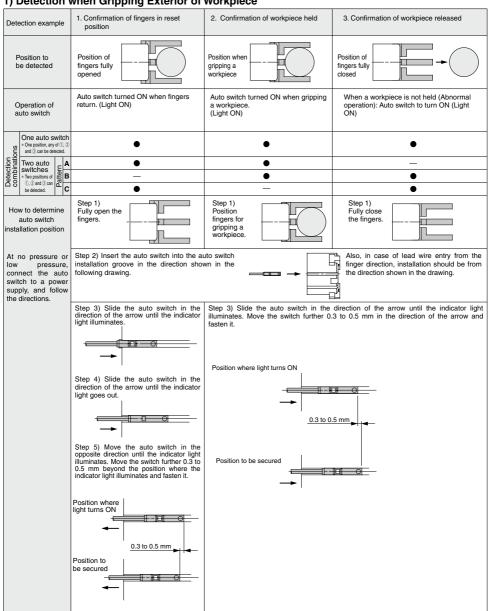
-X□ MRHQ MA D-□

MHS Series

Auto Switch Installation Examples and Mounting Positions

Various auto switch applications are possible through different combinations of auto switch quantities and detecting positions.

1) Detection when Gripping Exterior of Workpiece



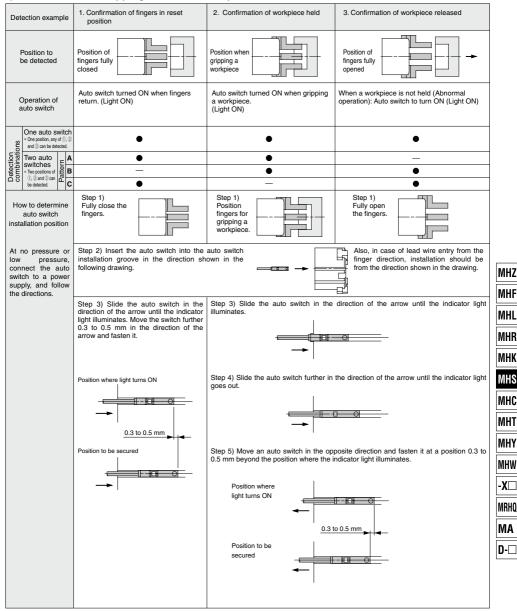
Note 1) It is recommended that gripping of a workpiece be performed close to the center of the finger stroke.

Note 2) When holding a workpiece close at the end of open/close stroke of fingers, detecting performance of the combinations listed in the above table may be limited, depending on the hysteresis of an auto switch, etc.

Prallel Type Air Gripper MHS Series

Various auto switch applications are possible through different combinations of auto switch quantities and detecting positions.

2) Detection when Gripping Interior of Workpiece



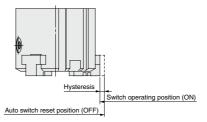
Note 1) It is recommended that gripping of a workpiece be performed close to the center of the finger stroke. Note 2) When holding a workpiece close at the end of open/close stroke of fingers, detecting performance of the combinations listed in the above table may be limited, depending on the hysteresis of an auto switch, etc.

-X□

MHS Series

Auto Switch Hysteresis

Auto switches have hysteresis similar to micro switches. Use the table below as a guide when adjusting auto switch positions, etc.



MHS□/MHSL Series

	(mm)
	Hysteresis (Max. value)
Auto switch Air gripper model	D-M9□(V)
Air gripper model	D-M9□Ŵ(V) D-M9□A(V)
	D-M9□A(V)
MHS□ MHSL3 - 16D	0.5
MHS□ MHSL3 - 20D	0.5
MHS - 25D MHSL3	0.5
MHS□ MHSL3 - 32D	0.6
MHS□ MHSL3 - 40D	0.6
MHS - 50D MHSL3	0.6
MHS□ MHSL3 - 63D	0.6
MHS□ MHSL3-80D	0.6
MHS□ MHSL3-100D	0.6
MHS□ MHSL3 -125D	0.6

	(mm)
Au	Hysteresis (Max. value)
Auto switch model model	D-Y59□/Y69□/Y7P(V) D-Y7□W(V)/Y7BA
MHS□ MHSL3 - 32D	0.7
MHS□ - 40D MHSL3	0.5
MHS□ MHSL3 - 50D	0.5
MHS□ MHSL3 - 63D	0.5
MHS□ MHSL3 - 80D	0.5
MHS□ MHSL3-100D	0.5
MHS□ MHSL3 -125D	0.5

Note) The actual mounting position should be adjusted after confirming the auto switch performance.

MHSJ/MHSH Series

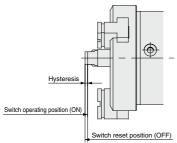
		(mm)
Auto	Hysteresis (Max. value)	
Auto switch Air gripper model model	D-M9□(V) D-M9□W(V) D-M9□A(V)	
MHSJ3-16D MHSH3	0.5	
MHSJ3 MHSH3 ^{-20D}	0.5	
MHSJ3 MHSH3 ^{-25D}	0.5	
MHSJ3 MHSH3 ^{-32D}	0.6	
MHSJ3 MHSH3 ^{-40D}	0.6	
MHSJ3 MHSH3 ^{-50D}	0.6	
MHSJ3 MHSH3 ^{-63D}	0.6	
MHSJ3 MHSH3 ^{-80D}	0.6	



Prallel Type Air Gripper MHS Series

Auto Switch Hysteresis

Center pusher/Cylinder type



	(m	ım)
1	Hysteresis (Max. value)	
Auto switch Air gripper model model	D-M9□(V) D-M9□W(V) D-M9□A(V)	
MHSH□3-32DA	0.3	
MHSH□3-40DA	0.3	
MHSH□3-50DA	0.2	
MHSH□3-63DA	0.4	
MHSH□3-80DA	0.3	

Note) The actual mounting position should be adjusted after confirming the auto switch performance.

MHZ MHF

MHR

MHK

MHS

MHC

MHT

MHW -X□

MRHQ

MA D-□



Protrusion of Auto Switch from Edge of Body

The projection of an auto switch from the edge of the body is shown in the table below.

Use the table as a guideline for mounting.

The MHSJ3 and MHSH3 series are described on another page

Mounting with lead wire on side opposite the fingers Mounting with lead wire on same side as the fingers In-line electrical entry type In-line electrical entry type Direction of auto switch mounting on air gripper Perpendicular electrial entry type Perpendicular electrial entry type Auto switch model Lead wire type In-line entry Perpendicular entry In-line entry Perpendicular entry Finger position D-M9□ D-M9□ р-м9□∨ D-M9□V D-M9□A D-M9□AV D-M9□A D-M9□AV Air gripper D-M9□W D-M9□WV D-M9□W D-M9□WV Open 3 MHS□-16D Closed 5 7 3 5 Open MHS□-20D Closed 5 7 3 5 Open MHS□-25D Closed 3 5 1 3 Open MHSL3-16D Closed 5 7 3 5 Open MHSL3-20D Closed 5 3 5 Open MHSL3-25D Closed 3 5 1 3 Open MHS□-32D Closed 5.5 7.5 3.5 5.5 Open MHS□-40D Closed 5 7 3.5 5 Open MHS□-50D Closed 2.5 4.5 6.5 4.5 Open MHS□-63D Closed 2.5 4.5 0.5 2.5 Open MHS□-80D Closed Open MHS□-100D Closed Open MHS□-125D Closed Open MHSL3-32D Closed 5.5 7.5 3.5 5.5 Open MHSL3-40D Closed 3.5 Open MHSL3-50D Closed 4.5 6.5 2.5 4.5 Open MHSL3-63D Closed 2.5 4.5 0.5 2.5 Open MHSL3-80D Closed Open

Note 1) There is no protrusion for sections of the table with no values entered.

Note 2) When mounted with lead wires on the finger side, be sure that attachments and workpieces, etc., do not touch switch units or lead wires.

Note 3) The actual mounting position should be adjusted after confirming the auto switch performance.



MHSL3-100D

MHSL3-125D

Closed Open

Closed

(mm)

Protrusion of Auto Switch from Edge of Body

The projection of an auto switch from the edge of the body is shown in the table below. Use the table as a guideline for mounting.

(mm) Mounting with lead wire on side opposite the fingers Mounting with lead wire on same side as the fingers In-line electrical entry type In-line electrical entry type Direction of auto switch mounting on air gripper Perpendicular electrial entry type Perpendicular electrial entry type

Au Lead wire type		In-line entry Perpendicu		Perpendicular entry	In-line entry		Perpendicular entry
Air gripper model		D-Y59□ D-Y7P D-Y7□W	D-Y7BA	D-Y69□ D-Y7PV D-Y7□WV	D-Y59□ D-Y7P D-Y7□W	D-Y7BA	D-Y69□ D-Y7PV D-Y7□WV
MHS□-32D	Open	_	_	_	_	5	-
MH2□-32D	Closed	6	9	4	_	_	
MHS□-40D	Open	_	_	_	_	2.5	_
MH5□-40D	Closed	5.5	8	4	_	_	
MHS□-50D	Open	_	_	_	_	_	_
พทร⊔-อบบ	Closed	5	7.5	3	_	_	_
MHS□-63D	Open	_	_	_	_	_	-
พทร⊔-630	Closed	3	5	1	_	_	
MHS□-80D	Open	_	_	_	_	_	-
MH2□-80D	Closed	_	_	_	_	_	-
MHS□-100D	Open	_	_	_	_	_	
MH2-100D	Closed	_	_	_	_	_	-
MHS□-125D	Open	_	_	_	_	_	-
MH2□-123D	Closed	_	_	_	_	_	
MHSL3-32D	Open	_	_	_	_	_	-
WITISLS-32D	Closed	6	9	4	_	_	_
MHSL3-40D	Open	_	_	_	_	_	
WITSL3-40D	Closed	5.5	8	4	_	_	-
MHSL3-50D	Open	_	_	_	_	_	
WITIOL3-50D	Closed	5	7.5	3	_	_	_
MHSL3-63D	Open	_	_	_	_	_	ı
WITIGES-03D	Closed	3	5	1	_	_	
MHSL3-80D	Open	_	_	_	_	_	
WITIGES-60D	Closed	_	_	_	_	_	ı
MHSL3-100D	Open	_	_	_	_	_	ı
WITISES-100D	Closed	_	_	_	_	_	ı
MHSL3-125D	Open	_	_	_	_	_	
WITI 3L3-125D	Closed	_	_	_	_	_	_

Note 1) There is no protrusion for sections of the table with no values entered.

Note 2) When mounted with lead wires on the finger side, be sure that attachments and workpieces, etc., do not touch switch units or lead wires.

Note 3) The actual mounting position should be adjusted after confirming the auto switch performance.

MHZ MHF MHL MHR MHK MHS MHC MHT MHY MHW

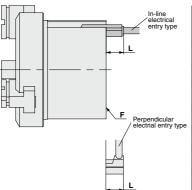
MRHQ MA

-X□



Protrusion of Auto Switch from Edge of Body

The projection of an auto switch from the edge of the body is shown in the table below. Use the table as a guideline for mounting.



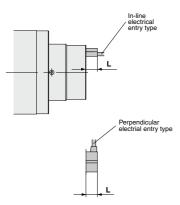
					(mm)
Lead wire type		In-line	entry	Perpendicular entry	
Auto switch model Air gripper model		D-M9□ D-M9□W	D-M9□A	D-M9□V D-M9□WV	D-M9□AV
MHSJ3 16D	Open	2	4	_	2
MHSH3-10D	Closed	5.5	7.5	3.5	5.5
MHSJ3 -20D MHSH3	Open	2	4	_	2
MHSH3 ZOD	Closed	5	7	3	5
MHSJ3 -25D MHSH3	Open	_	3	_	_
MHSH3 23B	Closed	5	7	3	5
MHSJ3 -32D MHSH3	Open	_	1	_	_
MHSH3 -32D	Closed	4.5	6.5	2.5	4.5
MHSJ3 -40D MHSH3	Open	_	_	_	_
MHSH3 -40B	Closed	3	5	1	3
MHSJ3 -50D MHSH3	Open	_	_	_	_
MHSH3 SOD	Closed	1.5	3.5	_	1.5
MHSJ3 -63D MHSH3	Open	_	_	_	_
MHSH3 -03D	Closed	_	2	_	_
MHSJ3 -80D MHSH3	Open	_	_	_	_
MHSH3 -80D	Closed	_	1	_	_

- Note 1) Indicates the amount of protrusion from the mounting surface F. There is no protrusion from the finger side.
- Note 2) There is no protrusion for sections of the table with no values entered.
- Note 3) When mounted with lead wires on the finger side, be sure that attachments and workpieces, etc., do not touch switch units or lead wires.
- Note 4) The actual mounting position should be adjusted after confirming the auto switch performance.

Protrusion from Edge of Push Holder (P)

The amount of auto switch protrusion from the push holder (P) end surface is shown in the table below. Use this as a standard when mounting, etc.

Center Pusher/Cylinder Type



					(mm)	
Lead wire type		In-line	entry	Perpendicular entry		
Auto switch model Air gripper model Air gripper model		D-M9□ D-M9□W	D-M9□A	D-M9□V D-M9□WV	D-M9□AV	
MHSH□-32DA	Extended	4	2	2	4	
WITSTI -32DA	Retracted	9	7	7	9	
MHSH□-40DA	Extended	3	_	1	3	
WITST□-40DA	Retracted	8	6	6	8	
MHSH□-50DA	Extended	_	_	_	_	
WITSTI - SUDA	Retracted	7.5	5.5	5.5	7.5	
MHSH□-63DA	Extended	_	_	_	_	
IVINON∐-63DA	Retracted	7	5	5	7	
MHSH□-80DA	Extended	_	_	_	_	
WIDSH□-8UDA	Retracted	4	2	2	4	

Note) The actual mounting position should be adjusted after confirming the auto switch performance.



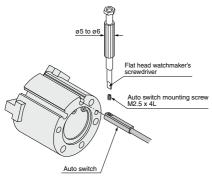
Prallel Type Air Gripper MHS Series

Auto Switch Mounting

Applicable models:

MHS2-16, 20, 25 MHS3-16, 20, 25 MHSJ3-16, 20, 25, 32, 40, 50, 63, 80 MHSH3-16, 20, 25, 32, 40, 50, 63, 80 MHSH3-A32, 40, 50, 63, 80 MHSL3-16, 20, 25 MHS4-16, 20, 25

To set the auto switch, insert the auto switch into the installation groove of the gripper from the direction indicated in the following drawing. After setting the position, tighten the attached auto switch mounting set screw with a flat head watchmaker's screwdriver.

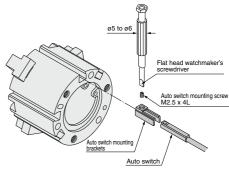


Note) Use a watchmaker's screwdriver with a grip diameter of 5 to 6 mm to tighten the auto switch mounting screw. The tightening torque should be about 0.05 to 0.15 N·m.

Applicable models:

MHS2-32, 40, 50, 63 MHS3-32, 40, 50, 63, 80, 100, 125 MHSL3-32, 40, 50, 63, 80, 100, 125 MHS4-32, 40, 50, 63

- (1) To set the auto switch, insert the auto switch into the installation groove of the cylinder as shown below and set it roughly.
- (2) Insert the auto switch into the auto switch bracket installation groove (3) After confirming the detecting position, tighten the set screws (M2.5)
- attached to the auto switch and set it. (4) Be sure to change the detecting position in the state of (2).



Auto Switch Mounting Bracket Part No.

Auto switch model	Auto switch mounting bracket part no
D-M9□(V) D-M9□W(V) D-M9□A(V)	BMG2-012

Note) Use a watchmaker's screwdriver with a grip diameter of 5 to 6 mm to tighten the set screw (M2.5).

The tightening torque should be 0.05 to 1 N·m. It should be turned about 90° beyond the point at which tightening can be felt.

MHZ MHF

MHL MHR

MHK

MHS

MHC

MHT MHY

MHW

-X□ MRHO

MA