

Rotary Table: Basic Type Vane Style

Series *MSUB*

Size: 1, 3, 7, 20



How to Order

Bearing type
B Basic type

Connection port location
Nil Side ported
E Axial ported
 Available with side ported only, when equipped with auto switch unit.

Free mount type

Without auto switch
MSUB 20 - 90 S

With auto switch
M D SUB 20 - 90 S - T79 L

With auto switch (Built-in magnet)

Nominal size (Torque)

1	MSUB 1
3	MSUB 3
7	MSUB 7
20	MSUB20

Rotating angle

Application	Symbol	Rotating angle
Single vane	90	90°
	180	180°
Double vane	90	90°

Rotation adjustment range
 Single vane: Both ends ±5° each
 Double vane: Both ends ±2.5° each

Vane type

S	Single vane
D	Double vane

Number of auto switches

S	1 pc. *
Nil	2 pcs. **

* S (1 auto switch) is shipped with a right-hand auto switch.
 ** Nil (2 auto switches) is shipped with a right-hand and a left-hand switch.

Electrical entry/Lead wire length

Nil	Grommet/Lead wire: 0.5 m
L	Grommet/Lead wire: 3 m
C	Connector/Lead wire: 0.5 m
CL	Connector/Lead wire: 3 m
CN	Connector/Without lead wire

* Available only with R73, R80 and T79 type connectors.
 ** Lead wire with connector part nos.
 D-LC05: Lead wire 0.5 m
 D-LC30: Lead wire 3 m
 D-LC50: Lead wire 5 m

Auto switch

Nil	Without auto switch (built-in magnet)
------------	---------------------------------------

*Refer to the table below for the applicable auto switch model.

Applicable Auto Switch/Refer to pages 761 to 809 for further information on auto switches.

Applicable model	Type	Special function	Electrical entry	Indicator/light	Wiring (Output)	Load voltage		Auto switch model		Lead wire type	Lead wire length (m) *				Pre-wired connector	Applicable load				
						DC	AC	Perpendicular	In-line		0.5 (Nil)	3 (L)	5 (Z)	None (N)						
MDSUB1 MDSUB3	Solid state switch	——	Grommet	Yes	3-wire (NPN) 3-wire (PNP)	24 V	5V,12V 12V	——	S99V	S99	Heavy-duty cord	●	●	—	—	○	IC circuit	Relay, PLC		
									S9PV	S9P		○	——							
									T99V	T99		○	——							
	Reed switch	——		No	2-wire		5 V, 12 V, 100 V 5 V, 12 V, 24 V, 100 V	——	90 90A	Parallel cord Heavy-duty cord	●	●	●	—	——	IC circuit				
											——	97	Parallel cord	●			●		●	—
											——	93A	Heavy-duty cord	●			●		●	—
MDSUB7 MDSUB20	Solid state switch	——	Grommet	Yes	3-wire (NPN) 3-wire (PNP)	24 V	5V,12V 12V	——	——	S79	Heavy-duty cord	●	●	—	—	○	IC circuit	Relay, PLC		
									——	S7P		●	●	—	—	○				
									——	T79		●	●	—	—	○				
									——	T79C		●	●	●	●	——				
	Reed switch	——	Connector	No	2-wire	——	100 V	——	R73	——	●	●	—	—	——	——				
									——		R73C	●	●	—			●			
									48V,100V		100 V	——	R80	●			●		—	—
									——		24 V or less	——	R80C	●			●		●	●

* Lead wire length symbols: 0.5 m Nil (Example) R73C
 3 m L (Example) R73CL
 5 m Z (Example) R73CZ
 None N (Example) R73CN

* Auto switches are shipped together (but not assembled).

* Auto switches marked with "○" are made-to-order specifications.

Order example: MSUB20 single vane type (connection port side location selected)

1. Standard type (Without auto switches), Rotation 90°, side port location MSUB20-90S
2. With auto switch unit (Without auto switches), Rotation 180°, Side port location MDSUB20-180S
3. With auto switch unit + Auto switch R73, Rotation 180°, Side port location MDSUB20-180S-R73



Refer to pages 796 to 797 for detailed solid state auto switches with pre-wired connectors.