

# 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)					
																	24 V	5 V, 12 V	5 V, 12 V, 24 V
MDSUB1 MDSUB3	Solid state switch	—	Grommet	Yes	3-wire (NPN)	24 V	5V, 12V	—	S99V	S99	Heavy-duty cord	●	●	—	—	○	IC circuit Relay, PLC		
					3-wire (PNP)				S9PV	S9P		●	●	—	—	○			
	Reed switch	—	Grommet	No	2-wire	24 V	5 V, 12 V	5 V, 12 V, 24 V	90	90	Parallel cord	●	●	●	—	—		IC circuit	
					—				97	97		●	●	●	—	—			
MDSUB7 MDSUB20	Solid state switch	—	Grommet	Yes	3-wire (NPN)	24 V	5V, 12V	—	—	S79	Heavy-duty cord	●	●	—	—	○	IC circuit Relay, PLC		
					3-wire (PNP)				—	S7P		●	●	—	—	○			
					Connector				—	T79		●	●	—	—	○			
	Reed switch	—	Grommet	No	2-wire	24 V	12V	100 V	—	T79C	Heavy-duty cord	●	●	●	●	—		—	
									Connector	—		R73	●	●	—	—			—
									Connector	—		R73C	●	●	—	●			●
Reed switch	—	Grommet	No	2-wire	24 V	48V, 100V	100 V	—	R80	Heavy-duty cord	●	●	—	—	—	IC circuit			
								Connector	—		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)

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