

# Rotary Table: Basic Type Vane Type

# MSUB Series

Size: 1, 3, 7, 20

## How to Order

**Bearing type**  

B	Basic type
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**Connection port location**  

Nil	Side ported
E	Axial ported

**Free mount type**  
 Available with side ported only, when equipped with auto switch unit.

**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  $\pm 5^\circ$  each  
 Double vane: Both ends  $\pm 2.5^\circ$  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
Z	Grommet/Lead wire: 5 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)
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\* Refer to the table below for the applicable auto switch model.

## Applicable Auto Switches

Refer to pages 797 to 850 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)		IC circuit	PLC
MDSUB1	Solid state auto switch	—	Grommet	Yes	3-wire (NPN)	24 V	5V, 12V	—	—	—	●	●	○	—	○	—	Relay, PLC
							12V	—	—	—	●	●	○	—	○		
MDSUB3	Reed auto switch	—	Grommet	No	2-wire	24 V	5 V, 12 V, 100 V	5 V, 12 V, 24 V	—	90	●	●	●	—	—	Relay, PLC	
—	5 V, 12 V, 24 V, 100 V	—					90A	●	●	●	—	—					
MDSUB7	Solid state auto switch	—	Grommet	Yes	3-wire (NPN)	24 V	5V, 12V	—	—	—	●	●	○	—	○	Relay, PLC	
							12V	—	—	—	●	●	○	—	○		
MDSUB20	Reed auto switch	—	Grommet	No	2-wire	24 V	100 V	—	—	93A	●	●	●	—	—	IC circuit	
							48V, 100V	100 V	—	—	●	●	○	—	—		
							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.

\* Refer to pages 837 to 838 for detailed solid state auto switches with pre-wired connectors.

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