

Mini Free Mount Cylinder

CUJ Series

∅12, ∅16, ∅20

How to Order

CUJ B 12 - 30 D - [] - []

With auto switch **CDUJ B 12 - 30 D** - [] - **F8N** [] - []

With auto switch (Built-in magnet)

Mounting direction

B Lateral mounting
Counter-bore

S Axial mounting
Counter-bore

Made to Order
Refer to page 606 for details.

Auto switch

Nil	2 pcs.
S	1 pc.

* M9□: with 1 pc.

Auto switch

Nil	Without auto switch
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* Refer to the table below for applicable auto switches.

Rod end thread

Nil	Rod end female threaded
M	Rod end male threaded

Action

D	Double acting
S	Single acting, spring return

Cylinder stroke (mm)
* Refer to "Standard Stroke" on page 606.

Built-in Magnet Cylinder Model

In the case of built-in magnet without auto switch, the symbol for auto switch is "Nil".
(Example) CDUJB12-15DM

Bore size

12	12 mm
16	16 mm
20	20 mm

Applicable Auto Switches

Refer to pages 1575 through to 1701 for additional information on auto switches.

Type	Special function	Electrical entry	Indicator light	Wiring (Output)	Load voltage		Auto switch model		Lead wire length (m) *			Pre-wired connector	Applicable load		
					DC	AC	Perpendicular	In-line	0.5 (Nil)	1 (M)	3 (L)			5 (Z)	
Solid state auto switch	—	Grommet	Yes	3-wire (NPN)	5 V, 12 V	—	—	M9N	●	●	●	○	○	IC circuit Relay, PLC	
				3-wire (PNP)			—	M9P	●	●	●	○	○		
				2-wire	12 V	—	—	M9B	●	●	●	○	○		—
				3-wire (NPN)			—	M9NW	●	●	●	○	○		IC circuit
				3-wire (PNP)	5 V, 12 V	—	M9PW	●	●	●	○	○	○		—
				2-wire	12 V	—	M9BW	●	●	●	○	○	○		—
	Diagnostic indication (2-color indicator)	Grommet	Yes	No	3-wire (NPN)	5 V, 12 V	—	—	M9NA**	○	○	●	○	○	IC circuit
					3-wire (PNP)			—	M9PA**	○	○	●	○	○	○
					2-wire	12 V	—	—	M9BA**	○	○	●	○	○	—
					3-wire (NPN)			5 V, 12 V	—	M9NA**	○	○	●	○	○
					3-wire (PNP)	12 V	—	M9PA**	○	○	●	○	○	○	IC circuit
					2-wire	12 V	—	M9BA**	○	○	●	○	○	○	—

** Water resistant type auto switches can be mounted on the above models, but in such case SMC cannot guarantee water resistance. Consult with SMC regarding water resistant types with the above model numbers.

* Lead wire length symbols: 0.5 m Nil (Example) M9N * Auto switches marked with "○" are produced upon receipt of order.
1 m M (Example) M9NM
3 m L (Example) M9NL
5 m Z (Example) M9NZ

Note 1) For 2-color indicator, use caution on hysteresis. Refer to page 1585, "Auto Switch Hysteresis" prior to use.

Note 2) Refer to pages 1575 through to 1701 for detailed auto switch specifications.

* Auto switches are included, (but not assembled).