

Free Mount Cylinder

Single Acting, Single Rod, Spring Return/Extend

CU Series

ø6, ø10, ø16, ø20, ø25, ø32

How to Order

CU 10 [] - **15** **S** - []

With auto switch **CDU 10** [] - **15** **S** - **M9BW** [] - []

Built-in magnet •

Bore size •

6	6 mm
10	10 mm
16	16 mm
20	20 mm
25	25 mm
32	32 mm

Port thread type •

Symbol	Type	Bore size
Nil	M5 x 0.8	ø6, ø10, ø16, ø20, ø25
	Rc 1/8	ø32
TN	NPT 1/8	ø32
TF	G 1/8	ø32

Action

S	Single acting, Spring return
T	Single acting, Spring extend

Standard stroke (mm)

ø6, ø10, ø16	5, 10, 15
ø20, ø25, ø32	

Number of auto switches

Nil	2 pcs.
S	1 pc.

Auto switch

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

Made to Order
* Refer to page 636 for the Made to Order specifications.

Built-in Magnet Cylinder Model

If a built-in magnet cylinder without an auto switch is required, there is no need to enter the symbol for the auto switch.
(Example): CDU20-10S

Applicable Auto Switches/Refer to pages 1575 to 1701 for further 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)	24 V	5 V, 12 V	—	M9NV	M9N	●	●	●	○	○	IC circuit
				3-wire (PNP)				M9PV	M9P	●	●	●	○	○	
				2-wire	M9BV	M9B	●	●	●	○	○	Relay, PLC			
	3-wire (NPN)			5 V, 12 V	—	M9NWX	M9NW	●	●	●	○		○	IC circuit	
	3-wire (PNP)					M9PWX	M9PW	●	●	●	○		○		—
	Water resistant (2-color indicator)			2-wire	M9BWX	M9BW	●	●	●	○	○	—			
3-wire (NPN)		5 V, 12 V	—		M9NAV ^{#1}	M9NA ^{#1}	○	○	○	○	IC circuit				
3-wire (PNP)	12 V			M9PAV ^{#1}	M9PA ^{#1}	○	○	●	○	○		IC circuit			
		2-wire	M9BAV ^{#1}	M9BA ^{#1}	○	○	●	○	○	—					
Reed auto switch	—	Grommet	Yes	3-wire (NPN equivalent)	24 V	12 V	—	A96V	A96		●	●	●	—	—
				2-wire				A93V ^{#2}	A93	●	—	●	●	—	Relay, PLC
				No	2-wire	100 V or less	A90V	A90	●	—	●	—	—	IC circuit	

*1 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.

*2 1 m type lead wire is only applicable to D-A93.

* Lead wire length symbols: 0.5 m Nil (Example) M9NW
 1 m M (Example) M9NWX
 3 m L (Example) M9NWL
 5 m Z (Example) M9NWX

* Solid state auto switches marked with "○" are produced upon receipt of order.

* Since there are applicable auto switches other than the above, refer to page 678 for details.

* For detail about auto switches with pre-wired connector, refer to pages 1648 and 1649.

* Auto switches are shipped together but not assembled.

CUJ

CU

CQS

JCQ

CQ2

RQ

CQM

CQU

MU

D-□

-X□

Technical Data