

High Precision Stroke Reading Cylinder Non-rotating Piston Type

CEP1 Series

ø12, ø20



(Note) CE-compliant: When connecting to a multi-counter (CEU5□□-D, power supply voltage 24 VDC). Refer to the multi-counter operation manual for details.

How to Order

CEP1 B 12 - 50 - M9BW

High precision stroke reading cylinder

Mounting type

B	Direct mounting rod side tapped type
L	Foot type
F	Rod side flange type

Bore size

12	ø12 mm equivalent
20	ø20 mm equivalent

Standard cylinder stroke (mm)
Refer to "Standard Stroke" on page 648.

Connector

Nil	With connector
Z	Without connector

Sensor cable length

Nil	0.5 m
L	3 m

Number of auto switches

Nil	2 pcs.
S	1 pc.
n	"n" pcs.

Auto switch

Nil	Without auto switch (Built-in magnet)
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* For the applicable auto switch model, refer to the table below.

Applicable counter
CEU5 series

<Made to Order>

Fluororubber seals: -XC22
(Example) CEP1B12-100-M9N-XC22

<Option>

Extension cable **CE1-R 05**

Cable length

05	5 m
10	10 m
15	15 m
20	20 m

Suffix

Nil	Extension cable
C	Extension cable & connector

Mounting Bracket Part No.

Cylinder part no.	Foot	Rod side flange
CEP1□12	CEP1-L12	CEP1-F12
CEP1□20	CEP1-L20	CEP1-F20

Applicable Auto Switches

Refer to pages 941 to 1067 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	Relay, PLC	
				3-wire (PNP)				M9PV	M9P	●	●	○	○			
				2-wire				M9BV	M9B	●	●	○	○			
				3-wire (NPN)				M9NWV	M9NW	●	●	○	○			
	Diagnostic indication (2-color indicator)			3-wire (PNP)	M9PWV	M9PW	●	●	○	○	IC circuit					
				2-wire	M9BWW	M9BW	●	●	○	○						
				3-wire (NPN)	M9NAV ^{*1}	M9NA ^{*1}	○	○	●	●		IC circuit				
				3-wire (PNP)	M9PAV ^{*1}	M9PA ^{*1}	○	○	●	●						
Water resistant (2-color indicator)	2-wire	M9BAV ^{*1}	M9BA ^{*1}	○	○	●	●	IC circuit								
	—	—	—	—	—	—	—		IC circuit							
Read auto switch	—	Grommet	Yes	3-wire (NPN equivalent)	—	5 V	—	A96V		A96	●	—	●	—	—	IC circuit
				2-wire	24 V	12 V	100 V 100 V or less	A93V ^{*2}	A93	●	●	●	●	—	—	Relay, PLC
								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) M9NV
1 m M (Example) M9NWM
3 m L (Example) M9NWL
5 m Z (Example) M9NWLZ

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

* Refer to page 655 for details on other applicable auto switches than listed above.

* For details about auto switches with pre-wired connector, refer to pages 1014 and 1015.

* Auto switches are shipped together (not assembled).



CEP1
CE1
CE2
ML2B

D-□
-X□