

Stroke Reading Cylinder

CE1 Series

ø12, ø20, ø32, ø40, ø50, ø63



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



How to Order

CE1 L 32 - 200 - - - M9BW

Mounting type

B	Both ends tapped type (Standard)
L	Foot type
F	Rod side flange type
G	Head side flange type
D	Double clevis type

Bore size

12	12 mm
20	20 mm
32	32 mm
40	40 mm
50	50 mm
63	63 mm

Standard cylinder stroke (mm)
Refer to "Standard Stroke" on page 657.

Cable length

Nil	0.5 m
L	3 m

Auto switch

Nil	Without auto switch (Built-in magnet)
-----	---------------------------------------

* For the applicable auto switch model, refer to the table below.

Connector

Nil	With connector
Z	Without connector

Number of auto switches

Nil	2 pcs.
S	1 pc.
3	3 pcs.
n	"n" pcs.

Suffix for cylinder
(Applicable bore size ø40 to ø63)

Nil	With cushion on both ends
N	Without cushion
R	With cushion on rod end
H	With cushion on head end

Applicable counter
CEU5 series

<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

* ø12, ø20, ø32: Without cushion only. But, symbol N is not necessary.

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)			None (N)	
Solid state auto switch	—	Grommet	Yes	3-wire (NPN)	5 V, 12 V	—	M9NV	M9N	●	●	○	—	—	—	IC circuit	
				3-wire (PNP)			M9PV	M9P	●	●	○	—	—			
		Connector		2-wire	12 V	—	J79C	—	●	●	●	●	—	—		—
				3-wire (NPN)	5 V, 12 V	—	M9NVW	M9NW	●	●	●	○	—	—		—
	Grommet	3-wire (PNP)	5 V, 12 V	—	M9PVW	M9PW	●	●	●	○	—	—	—	—		
		2-wire	12 V	—	M9BW	M9B	●	●	●	○	—	—	—			
	Water resistant (2-color indicator)	Grommet	Yes	3-wire (NPN)	5 V, 12 V	—	M9NAV*1	M9NA*1	○	○	●	○	—	—	IC circuit	
				3-wire (PNP)	5 V, 12 V	—	M9PAV*1	M9PA*1	○	○	●	○	—	—		
	With diagnostic output (2-color indicator)	Grommet	Yes	2-wire	12 V	—	M9BAV*1	M9BA*1	○	○	●	○	—	—	IC circuit	
				4-wire	5 V, 12 V	—	F79F	—	●	—	—	—	—	—		
Reed auto switch	—	Grommet	Yes	3-wire (NPN equivalent)	5 V	—	A96V	A96	●	—	●	—	—	—	IC circuit	
				—	200 V	A72	A72H	●	—	●	—	—	—			
				12 V	100 V	A93V*2	A93	●	●	●	●	—	—			
		Connector		Yes/No/Yes/No	2-wire	5 V, 12 V	100 V or less	A90V	A90	●	—	●	—	—	—	IC circuit
						12 V	—	A73C	—	●	—	●	●	—	—	
						5 V, 12 V	24 V or less	A80C	—	●	—	●	●	—	—	
Diagnostic indication (2-color indicator)	Grommet	Yes/No/Yes/No	—	—	A79W	—	●	—	●	—	—	—	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) M9NVW
3 m L (Example) M9NWL
5 m Z (Example) M9NZZ
None N (Example) J79CN

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

* Refer to page 666 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.

* When D-A9□□(V)/M9□□(V)/M9□□(V)/M9□□(V)/L types with ø32 to ø63 are mounted on a side other than the port side, order auto switch mounting brackets separately. Refer to page 666 for details.

* Auto switches are shipped together (not assembled).

