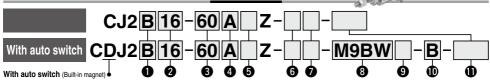
# Air Cylinder: Standard Type Double Acting, Single Rod

CJ2 Series





### 1 Mounting

В	Basic
E	Double-side bossed
D**	Double clevis
L	Single foot
M	Double foot
F	Rod flange
G	Head flange

- Foot/Flange brackets are shipped together with the product, but not assembled.
- Double clevis is only available for ø10 and ø16.
- \*\*: Refer to page 182 for the double clevis (with one-touch connecting pin).

### 8 Auto switch

Nil	Without auto switch
*· For an	plicable auto switches

- \*: For applicable auto switcher refer to the table below.
- ★ Enter the auto switch mounting type (A or B) even when a built-in magnet cylinder without an auto switch is required.

### 2 Bore size

_	
6	6 mm
10	10 mm
16	16 mm

### 5 Head cover port location

Nil	Perpendicular to axis	
R	Axial	

- \*: For double clevis, the product is
- perpendicular to the cylinder axis.
  \*: For double-side bossed, the product is perpendicular to the cylinder axis.

### Number of cuts quitables

Mulliper of auto switches								
Nil	2 pcs.							
S	1 pc.							
n	"n" pcs.							

#### 3 Cylinder standard stroke [mm] Refer to "Standard Strokes" on page 75.

PIVOT bracket							
Nil	None						
N	Pivot bracket is shipped together with the product.						

- Only for the double clevis type (ø10 and ø16)
- \*: Pivot bracket is shipped together with the product, but not assembled.

### Auto switch mounting type

Α	Rail mour	nting		
В	Band mou	nting		
	 		-	_

- \*: For rail mounting, screws and nuts for 2 auto switches come with the rail.
- Refer to page 178 for auto switch mounting brackets.
- \*: ø6: Band mounting only

### 4 Cushion

Nil	Rubber bumper
Α	Air cushion

\*: ø6: Rubber bumper only

### Rod end bracket

Nil	None
٧	Single knuckle joint
W**	Double knuckle joint
T	Rod end cap (Flat type)
U	Rod end cap (Round type)

- \*: Rod end bracket is shipped together with the product, but not assembled.
- Single/Double knuckle joint: ø10 and ø16 only
- \*\*: Refer to page 91 for the double knuckle joint (with one-touch connecting pin).

### Made to Order

Refer to page 75 for details.

\*: Refer to "Ordering Example of Cylinder Assembly" on page 75.

### Applicable Auto Switches/Refer to pages 1271 to 1365 for further information on auto switches.

	Electrical		Electrical Wiring Load voltage Auto switch model				Load voltage Auto switch model		Miring Load		Miring Load voltage					Lead wi		e ler	ngth	[m]	Pre-wired	Annli	aabla											
Ty	ре	Special function	entry	Indicator	(Output)		DC AC		Band m	ounting	Rail mo	ounting	0.5	1	3		None	connector	Appli	ad														
			Citily	Ιğ	(Output)		DC	AC	Perpendicular	In-line	Perpendicular	In-line	(Nil)	(M)	(L)	(Z)	(N)	COINICCIO	101	au														
					3-wire (NPN)		5 V.12 V		M9NV	M9N	M9NV	M9N	•	•	•	0	_	0	IC circuit															
2	<u> </u>		Grommet		3-wire (PNP)	]	5 V,12 V		M9PV	M9P	M9PV	M9P	•	•	•	0	_	0	IIC GICGIL															
dotivio	<b>∮</b>				2-wire		12 V		M9BV	M9B	M9BV	M9B	•	•	•	0	<b> </b> -	0																
8	ò		Connector		2-wire		12 V		_	H7C	J79C	_	•	_	•	•	•	_	_															
1	₹ [	Diamondo indiamina			3-wire (NPN)	]	5 V.12 V		M9NWV	M9NW	M9NWV	M9NW	•	•	•	0	_	0	IC aireuit	l <u>.</u> . I														
		Diagnostic indication (2-color indicator)		Yes	3-wire (PNP)	24 V	5 V,12 V	-	M9PWV	M9PW	M9PWV	M9PW	•	•	•	0	I —	0	IC circuit	PLC														
4040		(2-color indicator)	(2-color indicator) 2-wire	Z-color indicator)		2-wire	]	12 V		M9BWV	M9BW	M9BWV	M9BW	•	•	•	0	_	0	_	1 1 1													
		Material	Grommet		3-wire (NPN)	]	5 V.12 V		M9NAV*1	M9NA*1	M9NAV*1	M9NA*1	0	0	•	0	_	0	IC circuit															
2100	ś١	Water resistant (2-color indicator)			3-wire (PNP)	]	5 V,12 V	1	<b>"</b>	M9PAV*1	M9PA*1	M9PAV*1	M9PA*1	0	0	•	0	-	0	IIC CITCUIT														
0	5																				2-wire		12 V		M9BAV*1	M9BA*1	M9BAV*1	M9BA*1	0	0	•	0	_	0
		With diagnostic output (2-color indicator)		4	4-wire (NPN)	<u></u>	5 V,12 V		_	H7NF	_	F79F	•	_	•	0	<b> </b> -	0	IC circuit															
4	5			V	3-wire (NPN equivalent)	_	5 V	_	A96V	A96	A96V	A96	•	_	•	_	_	_	IC circuit	_														
	auto switch ——		Grommet	Yes		1	_	200 V	_		A72	A72H	•	_	•	_	_	_																
							100 V	A93V*2	A93	A93V*2	A93	•	•	•	•	_	_	1 —																
1	5			No	0		12 V	100 V or less	A90V	A90	A90V	A90	•	_	•	_	_	_	IC circuit	Relay,														
			Cannadas	Yes	2-wire	24 V	12 V	_	_	C73C	A73C	_	•	_	•	•	•	_	_	PLĆ														
18	Reed		Connector N	Connector	Connector	Connector	Connector	No	1			24 V or less	_	C80C	A80C	_	•	_	•	•	•	_	IC circuit	]										
		Diagnostic indication (2-color indicator)					_	_	_	_	A79W	_	•	_	•	_	-	_	_															

- \*1: Water resistant type auto switches can be mounted on the above models, but in such case SMC cannot guarantee water resistance. Please contact SMC regarding water resistant types with the above model numbers.
- \*2: 1 m type lead wire is only applicable to D-A93.

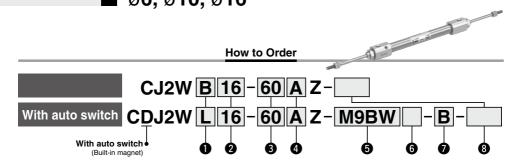
5 m····· Z (Example) M9NWZ None···· N (Example) H7CN

- \*: Since there are other applicable auto switches than listed above, refer to page 179 for details.
- \*: Solid state auto switches marked with "O" are produced upon receipt of order.
- \*: The D-A9\(\to M9\(\to A7\(\to A80\(\to /F7\(\to /J7\) auto switches are shipped together, but not assembled. (For band mounting, only the auto switch mounting brackets are assembled before shipment.)

### Air Cylinder: Standard Type **Double Acting, Double Rod**

# CJ2W Series ø6, ø10, ø16





### Mounting

В	Basic
L	Foot
F	Flange

\*: Foot/Flange brackets are shipped together with the product, but not assembled.

### Auto switch

Nil	Without auto switch

- \*: For applicable auto switches, refer to the table below.
- ★ Enter the auto switch mounting type (A or B) even when a built-in magnet cylinder without an auto switch is required.

### A Bore Size

G Dole Size						
6	6 mm					
10	10 mm					
16	16 mm					

6 Number of auto switches				
Nil	2 pcs.			
S	1 pc.			
n	"n" pcs.			

Cylinder standard	l stro	ke	[mn
Refer to "Standard Strok	es" or	n pa	ige 9

*: ø6: Rubb	er bumper only

4 Cushion

8 Made to Order

Refer to page 95 for details.

Rubber bumper Air cushion

- Auto switch mounting type
- - \*: For rail mounting, screws and nuts for 2 auto switches come with the rail.

Rail mounting Band mounting

- \*: Refer to page 178 for auto switch mounting brackets.
- \*: ø6: Band mounting only

		Electrical	Indicator light	VAC	Miring		Load voltage		Auto swit	ch model		Lea	d wir	e ler	ngth	[m]	D	A I'	1. 1 .					
Туре	Special function	Electrical entry	ago.		Wiring (Output)		DC	AC	Band m	ounting	Rail mo	ounting	0.5	1	3	5	None	Pre-wired connector	Appli lo:					
		Citaly	рģ	(Output)		DC	٨٥	Perpendicular	In-line	Perpendicular	In-line	(Nil)	(M)	(L)	(Z)	(N)	COMMICCION	101	uu					
				3-wire (NPN)		5 V,12 V		M9NV	M9N	M9NV	M9N	•	•	•	0	_	0	IC circuit						
ج		Grommet		3-wire (PNP)	]	5 V,12 V		M9PV	M9P	M9PV	M9P	•	•	•	0	<u> </u>	0	IO GIIGUII						
switch				2-wire		12 V		M9BV	M9B	M9BV	M9B	•	•	•	0	-	0							
		Connector		Z-WIIE		12 V		_	H7C	J79C	_	•	—	•	•	•	_	_						
anto	Diagnostic indication			3-wire (NPN)		5 V,12 V		M9NWV	M9NW	M9NWV	M9NW	•	•	•	0	<u> </u>	0	IC circuit	Dalau					
	(2-color indication		Yes 3-wire (PNF	3-wire (PNP)	24 V	J V, 12 V	_	M9PWV	M9PW	M9PWV	M9PW	•	•	•	0	-	0	IO GITCUIT	PLC					
state	(2-color indicator)			2-wire		12 V		M9BWV	M9BW	M9BWV	M9BW	•	•	•	0	_	0	_	' 0					
	Water resistant	Grommet		net	3-wire (NPN)	3-wire (NPN)	3-wire (NPN)		ء ا	(NPN)	5 V,12 V		M9NAV*1	M9NA*1	M9NAV*1	M9NA*1	0	0	•	0	<u> </u>	0	IC circuit	
Solid	(2-color indicator)			3-wire (PNP) 2-wire	J V,12 V		M9PAV*1	M9PA*1	M9PAV*1	M9PA*1	0	0	•	0	-	0	IO GITCUIT							
Ś	(2-color indicator)				12 V 5 V,12 V		12 V	12 V	M9BAV*1	M9BA*1	M9BAV*1	M9BA*1	0	0	•	0	_	0	_					
	With diagnostic output (2-color indicator)			4-wire (NPN)			wire (NPN)		_	H7NF	_	F79F	•	_	•	0	<u> </u>	0	IC circuit					
switch			Yes	3-wire (NPN equivalent)	_	5 V	_	A96V	A96	A96V	A96	•	_	•	_	-	_	IC circuit	_					
<u>=</u>		Grommet	res		1	_	200 V	_	_	A72	A72H	•	_	•	_	_	_							
								100 V	A93V*2	A93	A93V*2	A93	•	•	•	•	<u> </u>	_	-					
auto			Yes	o 2-wire	12 V	100 V or less	A90V	A90	A90V	A90	•	_	•	_	_	_	IC circuit	Relay,						
eed		Cannastas		2-wire	24 V	12 0		_	C73C	A73C	_	•	_	•	•	•	_		PLĆ					
8		Connector							24 V or less	_	C80C	A80C	_	•	_	•	•	•	_	IC circuit				
Ē	Diagnostic indication (2-color indicator)	Grommet	Yes			_	_	_	_	A79W	_	•	_	•	_	_	_	_						

- \*1: Water resistant type auto switches can be mounted on the above models, but in such case SMC cannot guarantee water resistance. Please contact 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) M9NWM
  - 3 m----- L (Example) M9NWL 5 m----- Z (Example) M9NWZ (Example) M9NWZ None----- N (Example) H7CN
- \*: Since there are other applicable auto switches than listed above, refer to page 179 for details.
- \*: Solid state auto switches marked with "O" are produced upon receipt of order.
- \*: The D-A9\(\to M9\(\to A7\(\to A80\(\to I/F7\(\to I/J7\)\) auto switches are shipped together, but not assembled. (For band mounting, only the auto switch mounting brackets are assembled before shipment.)

### Air Cylinder: Standard Type Single Acting, Spring Return/Extend

CJ2 Series ø6, ø10, ø16



How to Order

**CJ2B** 16 **CDJ2B** 16 With auto switch With auto switch (Built-in magnet)

### Mounting

В	Basic
E	Double-side bossed
D**	Double clevis
L	Single foot
M	Double foot
F	Rod flange
G	Head flange

- \*: Foot/Flange brackets are shipped together with the product, but not assembled
- \*: Double clevis is only available for ø10 and ø16.
- \*\*: Refer to page 182 for the double clevis (with one-touch connecting pin).

### 8 Auto switch

Nil	Without auto switch

- \*: For applicable auto switches, refer to the table below.
- Enter the auto switch mounting type (A or B) even when a built-in magnet cylinder without an auto switch is required.

### Bore size

$\overline{}$	
6	6 mm
10	10 mm
16	16 mm

### Head cover port location

Nil	Perpendicular to axis	
R	Axial	0

- \*: For double clevis, the product is
- perpendicular to the cylinder axis.
- \*: For double-side bossed, the product is perpendicular to the cylinder axis.
- \*: Not applicable to single acting, spring

### Number of auto switches

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

#### Cylinder standard stroke [mm] Refer to "Standard Strokes" on

page 102.

6 Pivot bracket Nil None Pivot bracket is shipped

\*: Only for the double clevis type (ø10 and ø16)

together with the product.

\* Pivot bracket is shipped together with the product, but not assembled.

### Auto switch mounting type Rail mounting

Band mounting

- \*: For rail mounting, screws and nuts for 2 auto switches come with the rail.
- \*: Refer to page 178 for auto switch mounting brackets.
- \*: Ø6: Band mounting only

### Action

S	Single acting, Spring return
Т	Single acting, Spring extend

### Rod end bracket

Nil	None
V	Single knuckle joint
W**	Double knuckle joint
T	Rod end cap (Flat type)
U	Rod end cap (Round type)

- \*: Rod end bracket is shipped together with the product, but not assembled.
- \*: Single/Double knuckle joint: ø10 and ø16 only
- \*\*: Refer to page 91 for the double knuckle joint (with one-touch connecting pin).

### Made to Order

Refer to page 102 for details.

\*: Refer to "Ordering Example of Cylinder Assembly" on page 102. Applicable Auto Switches/Refer to pages 1271 to 1365 for further information on auto switches.

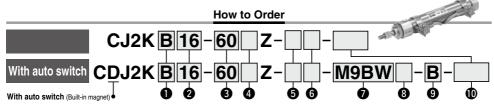
		Electrical E		Flootrical 15		Wiring		Load v	oltage		Auto swit	ch model		Lea	d wir	e ler	ngth	[m]	Pre-wired	Annli	aabla																		
Туре	Special function	entry	ndicator light	(Output)		DC	AC	Band m	Band mounting R		Rail mounting		1	3	5	None	connector	Appli	ad																				
		Citily	ğ	(Output)		DC	AC	Perpendicular	In-line	Perpendicular	In-line	(Nil)	(M)	(L)	(Z)	(N)	COIIIICCIOI	loau																					
				3-wire (NPN)		5 V,12 V		M9NV	M9N	M9NV	M9N	•	•	•	0	_	0	IC circuit																					
ڃ		Grommet		3-wire (PNP)		5 V,12 V		M9PV	M9P	M9PV	M9P	•	•	•	0	<b> </b> -	0	iic aicuit																					
switch				2-wire		12 V		M9BV	M9B	M9BV	M9B	•	•	•	0	_	0																						
		Connector		Z-WITE		12 V		_	H7C	J79C	_	•	_	•	•	•	_	-																					
anto	Di			3-wire (NPN)		5 V,12 V		M9NWV	M9NW	M9NWV	M9NW	•	•	•	0	<b> </b> -	0	IC circuit	Delevi																				
	Diagnostic indication (2-color indicator)		Ye	Y	Ye	Ye	Ye	Ye	Ye	Ye		ľ					Y	Yes	3-wire (PNP)	24 V	5 V,12 V	_	M9PWV	M9PW	M9PWV	M9PW	•	•	•	0	_	0	IC CITCUIT	PLC					
state	(2-color indicator)											2-wire	]	12 V		M9BWV	M9BW	M9BWV	M9BW	•	•	•	0	_	0	_	1 10												
	Water resistant (2-color indicator)	Grommet		3-wire (NPN) 3-wire (PNP) 2-wire	4 1				5 V,12 \	,] [		M9NAV*1	M9NA*1	M9NAV*1	M9NA*1	0	0	•	0	-	0	IC circuit																	
Solid						5 V,12 V	5 V,12 V	5 V,12 V		M9PAV*1	M9PA*1	M9PAV*1	M9PA*1	0	0	•	0	_	0	IC CITCUIT																			
ű					2-wire	2-wire	2-wire		12 V		M9BAV*1	M9BA*1	M9BAV*1	M9BA*1	0	0	•	0	_	0	_																		
	With diagnostic output (2-color indicator)			4-wire (NPN)		5 V,12 V		_	H7NF	_	F79F	•	<b>—</b>	•	0	-	0	IC circuit																					
switch																								3-wire (NPN equivalent)	_	5 V	_	A96V	A96	A96V	A96	•	_	•	_	_	_	IC circuit	_
<u>=</u>		Grommet	Yes		1	_	200 V	_	_	A72	A72H	•	_	•	_	<b>—</b>	_																						
		ı	- 1							l						100 V	A93V*2	A93	A93V*2	A93	•	•	•	•		1 —													
dauto			No	١				100 V or less	A90V	A90	A90V	A90	•	_	•	_	_	_	IC circuit	Relay,																			
		0	. Yes	. Yes	Yes	2-wire	24 V	12 V	_	_	C73C	A73C	_	•	<b>—</b>	•	•	•	_	_	PLC																		
Reed		connector N	Connector	Connector E	Connector	Connector	I Connector I	Connector I	Connector	Connector	Connector	No	1			24 V or less	_	C80C	A80C	_	•	_	•	•	•	_	IC circuit												
_	Diagnostic indication (2-color indicator)	Grommet	Yes	1		_	_	_	_	A79W	_	•	_	•	_	1	_	_																					

- \*1: Water resistant type auto switches can be mounted on the above models, but in such case SMC cannot guarantee water resistance. Please contact 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) M9NWM 3 m----- L (Example) M9NWL
- 5 m.. ···· Z (Example) M9NWZ None----- N (Example) H7CN
- \*: Since there are other applicable auto switches than listed, refer to page 179 for details.
- Solid state auto switches marked with "O" are produced upon receipt of order.

## Air Cylinder: Non-rotating Rod Type **Double Acting, Single Rod**

# CJ2K Series ø10, ø16





### Mounting

•u							
В	Basic						
E	Double-side bossed						
D**	Double clevis						
L	Single foot						
M	Double foot						
F	Rod flange						
G	Head flange						

- \*: Foot/Flange brackets are shipped together with the product, but not assembled
- \*: Refer to page 182 for the double clevis (with one-touch connecting pin).

### Auto switch

switch is required.

- Without auto switch \*: For applicable auto switches, refer
- to the table below. ★ Enter the auto switch mounting type (A or B) even when a built-in magnet cylinder without an auto

### A Pare Size

9	DUIC SIZE
10	10 mm
16	16 mm

### 4 Head cover port location

Nil	Perpendicular to axis	
R	Axial	1

- \*: For double clevis, the product is perpendicular to the cylinder axis.
- : For double-side bossed, the product is perpendicular to the cylinder axis.

o Number of auto switches								
Nil	2 pcs.							
S	1 pc.							
n	"n" pcs.							

1411	2 pcs.
S	1 pc.
n	"n" pcs.

\*: Refer to "Ordering Example of Cylinder Assembly" on page 119.

### 3 Cylinder standard stroke [mm]

Refer to "Standard Strokes" on page 119.

### 5 Pivot bracket

Nil	None									
N	Pivot bracket is shipped together with the product.									

- \*: Only for the double clevis type \*: Pivot bracket is shipped together
- with the product, but not assembled.

### Auto switch mounting type

A Rail mounting							
В	unting						
k: Fo	r rail mounting	screws an					

- nuts for 2 auto switches come with the rail.
- \*: Refer to page 178 for auto switch mounting brackets.

### 6 Rod end bracket

Nil	None							
V	Single knuckle joint							
W**	Double knuckle joint							
Т	Rod end cap (Flat type)							
U	Rod end cap (Round type)							

- \*: Rod end bracket is shipped together with the product, but not assembled.
- \*\*: Refer to page 91 for the double knuckle joint (with one-touch connecting pin).
- Made to Order Refer to page 119 for details.

		Electrical	light	Minima		Load vo	oltage		Auto swi	tch model		Lea	d wir	e ler	ngth	[m]	Den suirend	Annli	aabla																		
Туре	Special function	entry	Indicator	Wiring (Output)		DC	AC	Band mounting Rail mour		unting	0.5	1	3		None	Pre-wired connector		cable ad																			
		Citiy	рğ	(Output)		DO	٨٥	Perpendicular	In-line	Perpendicular	In-line	(Nil)	(M)	(L)	(Z)	(N)	COTHICCIO	1000																			
				3-wire (NPN)		5 V,12 V		M9NV	M9N	M9NV	M9N	•	•	•	0	<b>—</b>	0	IC circuit																			
ڃ		Grommet		3-wire (PNP)		3 V, 12 V		M9PV	M9P	M9PV	M9P	•	•	•	0	_	0	ic dicuit																			
switch				2-wire		12 V		M9BV	M9B	M9BV	M9B	•	•	•	0	<u> </u>	0	]																			
		Connector		Z-WITE		12 V		ı	H7C	J79C	_	•	_	•	•	•	_	_																			
anto	Diameratic in diameter.			3-wire (NPN)		5 V.12 V		M9NWV	M9NW	M9NWV	M9NW	•	•	•	0	_	0	IC circuit	Relay,																		
	Diagnostic indication (2-color indicator)	Grommet										Grommet	Grommet	Yes	3-wire (PNP)	24 V	3 V,12 V	_	M9PWV	M9PW	M9PWV	M9PW	•	•	•	0	<b> </b> -	0	ic dicuit	PLC							
state														Grommet					2-wire		12 V		M9BWV	M9BW	M9BWV	M9BW	•	•	•	0	<b>—</b>	0	_	1 1 20			
	Water resistant (2-color indicator)															3-wire (NPN)		5 V,12 V	,	M9NAV*1	M9NA*1	M9NAV*1	M9NA*1	0	0	•	0	<b> </b> -	0	IC circuit							
Solid									3-wire (PNP)		5 V, 12 V		M9PAV*1	M9PA*1	M9PAV*1	M9PA*1	0	0	•	0	_	0	IC GICGII														
Ñ																	2-wire	1	12 V		M9BAV*1	M9BA*1	M9BAV*1	M9BA*1	0	0	•	0	I —	0	_	]					
	With diagnostic output (2-color indicator)			4-wire (NPN)		5 V,12 V			H7NF	_	F79F	•	_	•	0	<b> </b> -	0	IC circuit																			
switch		Grommet	Grommet	Grommet	Grommet	Grommet	Grommet	Grommet	Grommet	Grommet	Grommet											3-wire (NPN equivalent)	_	5 V	_	A96V	A96	A96V	A96	•	_	•	-	-	_	IC circuit	_
\ <u>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</u>												Yes		1	_	200 V	_	_	A72	A72H	•	_	•	_	_	_											
							100 V	A93V*2	A93	A93V*2	A93	•	•	•	•	_	_	1 —																			
anto		N	1					[	No			40.1/	100 V or less	A90V	A90	A90V	A90	•	_	•	_	_	_	IC circuit	Relay,												
Ö									Yes	2-wire	24 V	/ 12 V	_	_	C73C	A73C	_	•	_	•	•	•	_	_	PLC												
Reed									Connector	Connector	Connector	No	No	No	1		İ	24 V or less	_	C80C	A80C	_	•	_	•	•	•	_	IC circuit	1							
_	Diagnostic indication (2-color indicator)	Grommet	Yes	]		_	_	_	_	A79W	_	•	_	•	<b>—</b>	_	_	_	]																		

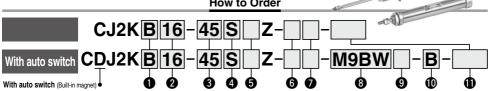
- \*1: Water resistant type auto switches can be mounted on the above models, but in such case SMC cannot guarantee water resistance. Please contact SMC regarding water resistant types with the above model numbers.
- \*2: 1 m type lead wire is only applicable to D-A93
- \*: Lead wire length symbols: 0.5 m----- Nil (Example) M9NW 1 m----- M (Example) M9NWM ..... L (Example) M9NWL
- 5 m····· Z (Example) M9NWZ None···· N (Example) H7CN
- \*: Since there are other applicable auto switches than listed, refer to page 179 for details. \*: Solid state auto switches marked with "O" are produced upon receipt of order.
- \*: The D-A9 M9 A7 A60 F7 A80 F7 A80 A80 Are assembled before being shipped.)

## Air Cylinder: Non-rotating Rod Type Single Acting, Spring Return/Extend

CJ2K Series ø10, ø16



How to Order



### Mounting

• mounting							
В	Basic						
E	Double-side bossed						
D**	Double clevis						
L	Single foot						
M	Double foot						
F	Rod flange						
G	Head flange						

- \*: Foot/Flange brackets are shipped together with the product, but not assembled.
- \*\*: Refer to page 182 for the double clevis (with one-touch connecting pin).

### 8 Auto switch

Nil	Without auto switch
For on	plicable auto awitabas

- refer to the table below.
- ★ Enter the auto switch mounting type (A or B) even when a built-in magnet cylinder without an auto switch is required.

Bore size							
10	10 mm						
16	16 mm						

### Head cover port location

Nil	Perpendicular to axis	
R	Axial	10

- \*: For double clevis, the product is
- perpendicular to the cylinder axis
- For double-side bossed, the product is perpendicular to the cylinder axis.
- \*: Not applicable to single acting, spring extend (T)

### Number of auto switches

Number of auto switche							
	Nil	2 pcs.					
	S	1 pc.					
	n	"n" pcs.					

\*: Refer to "Ordering Example of Cylinder Assembly" on page 126.

#### Cylinder standard stroke [mm] Refer to "Standard Strokes" on page 126.

### 6 Pivot bracket

Nil	None
N	Pivot bracket is shipped together with the product.

- \*: Only for the double clevis type \*: Pivot bracket is shipped
- together with the product, but not assembled.

### Auto switch mounting type Rail mounting

- Band mounting \*: For rail mounting, screws and nuts for 2 auto switches
- come with the rail. \*: Refer to page 178 for auto switch mounting brackets.

### A Action

ACTION							
S	Single acting, Spring return						
Т	Single acting, Spring extend						

### Rod end bracket

Nil	None
V	Single knuckle joint
W**	Double knuckle joint
Т	Rod end cap (Flat type)
U	Rod end cap (Round type)

- \*: Rod end bracket is shipped together
- with the product, but not assembled. \*\*: Refer to page 91 for the double knuckle joint (with one-touch connecting pin).
- Made to Order Refer to page 119 for details.

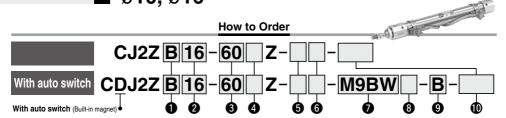
	Special function	Electrical	Electrical		Electrical entry	Electrical	Electrical	Electrical	Electrical	Electrical	틍	Wiring	Miring		Load voltage		Auto switch model			Lead	d wir	e ler	ngth	[m]	Dea missad	Ammi	aabla			
Туре		pe Special function					(Output)		DC	AC	Band m	Band mounting Rail mou		unting	0.5	1	3		None	Pre-wired connector		cable ad								
		Citaly	Indica	(Output)		DC	AO	Perpendicular	In-line	Perpendicular	In-line	(Nil)	(M)	(L)	(Z)	(N)	COTHICCIO	101	uu											
				3-wire (NPN)		5 V,12 V		M9NV	M9N	M9NV	M9N	•	•	•	0	_	0	IC circuit												
ء ا		Grommet		3-wire (PNP)		3 V, 12 V		M9PV	M9P	M9PV	M9P	•	•	•	0	_	0	IIC GIICUII												
switch				2-wire		12 V		M9BV	M9B	M9BV	M9B	•	•	•	0	_	0													
		Connector		Z-WITE		12 V		_	H7C	J79C	_	•	_	•	•	•	_	_												
anto	Diagnostic indication		1	3-wire (NPN)	]	E V 10 V		M9NWV	M9NW	M9NWV	M9NW	•	•	•	0	_	0	IC aire sit	۱. ا											
	Diagnostic indication (2-color indicator)		Yes	3-wire (PNP)	24 V	5 V,12 V	_	M9PWV	M9PW	M9PWV	M9PW	•	•	•	0	_	0	IC circuit	Relay, PLC											
state	(2-color indicator)											İ		2-wire	1	12 V		12 V	M9BWV	M9BW	M9BWV	M9BW	•	•	•	0	_	0	_	1 ' [0
		2-color indicator)	Grommet	Grommet	Grommet			Grommet	Grommet	Grommet	Grommet		3-wire (NPN)	1	51/401/		M9NAV*1	M9NA*1	M9NAV*1	M9NA*1	0	0	•	0	_	0	IC circuit	]		
Solid									3-wire (PNP)	1	5 V,12 V		M9PAV*1	PAV*1 M9PA*1 M9	M9PAV*1	M9PA*1	19PA*1 ○	0	•	0	_	O IC direuit								
ഗ്	(2-color indicator)														2-wire	1	12 V	]	M9BAV*1	M9BA*1	M9BAV*1	M9BA*1	0	0	•	0	_	0	_	1 1
	With diagnostic output (2-color indicator)																	4-wire (NPN)		5 V,12 V		_	H7NF	_	F79F	•	_	•	0	_
ch				.,	3-wire (NPN equivalent)	_	5 V	_	A96V	A96	A96V	A96	•	_	•	-	_	_	IC circuit	_										
switch		Grommet	Yes		1	_	200 V	_	_	A72	A72H	•	_	•	_	_	_													
				İ	İ			100 V	A93V*2	A93	A93V*2	A93	•	•	•	•	_	_	1 —	i i										
anto	Connector Ye						No	1		10 10	100 V or less	A90V	A90	A90V	A90	•	_	•	_	_	_	IC circuit	Relay,							
8		Cannastar	Yes	2-wire	24 V	12 V	_	_	C73C	A73C	_	•	_	•	•	•	_	_	PLĆ											
1 8		No	]			24 V or less	_	C80C	A80C	_	•	_	•	•	•	_	IC circuit	]												
_	Diagnostic indication (2-color indicator)	Grommet	Yes	1		_	_	_	_	A79W	_	•	_	•	_	_	_	_	1											

- \*1: Water resistant type auto switches can be mounted on the above models, but in such case SMC cannot guarantee water resistance. Please contact 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) M9NWM 3 m----- L (Example) M9NWL
- ······ Z (Example) M9NWZ None----- N (Example) H7CN
- \*: Since there are other applicable auto switches than listed, refer to page 179 for details.
- Solid state auto switches marked with "O" are produced upon receipt of order.

### Air Cylinder: Built-in Speed Controller Type **Double Acting, Single Rod**

CJ2Z Series ø10, ø16





### Mounting

Auto switch

<u> </u>					
В	Basic				
E	Double-side bossed				
D	Double clevis				
L	Single foot				
M	Double foot				
F	Rod flange				
G	Head flange				

\*: Foot/Flange brackets are shipped together with the product, but not assembled

\*: For applicable auto switches, refer to the table below. ★ Enter the auto switch mounting type (A or B)

an auto switch is required.

even when a built-in magnet cylinder without

Without auto switch

Bore size						
10	10 mm					
16	16 mm					

### 4 Head cover port location

Nil	Perpendicular to axis	
R	Axial	

\*: For double clevis, the product is

cylinder axis

perpendicular to the cylinder axis. : For double-side bossed, the product is perpendicular to the

Williper of auto switches						
Nil	2 pcs.					
S	1 pc.					
n	"n" pcs.					

Williper of auto switches					
Nil	2 pcs.				
S	1 pc.				
n	"n" pcs.				

\*: Refer to "Ordering Example of Cylinder Assembly" on page 138.

### Cylinder standard stroke [mm] Refer to "Standard Strokes" on page 138.

### Pivot bracket

Nil	None
N	Pivot bracket is shipped together with the product.

- \*: Only for the double clevis type \*: Pivot bracket is shipped together with the product, but
- not assembled.

### Auto switch mounting type Rail mounting

В	Band mounting
*: Fo	rail mounting, screws and

- nuts for 2 auto switches come
- \*: Refer to page 178 for auto switch mounting brackets.

### Rod end bracket

None
Single knuckle joint
Double knuckle joint
Rod end cap (Flat type)
Rod end cap (Round type)

- \*: Rod end bracket is shipped together with the product, but not assembled.
- \*\*: Refer to page 91 for the double knuckle joint (with one-touch connecting pin).

### Made to Order

Refer to page 138 for details.

Applicable Auto Switches/Refer to pages 1271 to 1365 for further information on auto switches.

		F14	Indicator light	145		Load vol	tage		Auto swit	ch model		Lead	d wir	e ler	ngth	[m]	Pre-wired							
Туре	Special function	Electrical entry	ator	Wiring (Output)		DC	AC	Band m	ounting	Rail mo	ounting	0.5	1	3	5		connector	Applica	ble load					
		Citily	Indic	(Output)		DC	AC	Perpendicular	In-line	Perpendicular	In-line	(Nil)	(M)	(L)	(Z)	(N)	COITIECCOI							
				3-wire (NPN)		5 V, 12 V		M9NV	M9N	M9NV	M9N	•	•	•	0	<u> </u>	0	IC circuit						
ڃ		Grommet		3-wire (PNP)	]	5 V, 12 V		M9PV	M9P	M9PV	M9P	•	•	•	0	-	0	10 circuit						
switch				2-wire		12 V		M9BV	M9B	M9BV	M9B	•	•	•	0	<b> </b> —	0							
S		Connector		2-wire		12 V		_	H7C	J79C	_	•	_	•	•	•	_	_						
anto	Dia alia ia alia alia a		1	3-wire (NPN)		5 V. 12 V		M9NWV	M9NW	M9NWV	M9NW	•	•	•	0	-	0	IC circuit	D-1					
	Diagnostic indication (2-color indicator)	Yes	3-wire (PNP)	24 V	5 V, 12 V	_	M9PWV	M9PW	M9PWV	M9PW	•	•	•	0	-	0	IC CITCUIT	Relay,						
state				2-wire	1	12 V	′	M9BWV	M9BW	M9BWV	M9BW	•	•	•	0	_	0	_	FLC					
	Water resistant (2-color indicator)	Grommet		3-wire (NPN)	1	5 V, 12 V			M9NAV*1	M9NA*1	M9NAV*1	M9NA*1	0	0	•	0	<u> </u>	0	IC circuit	1				
Solid				3-wire (PNP)	]	5 V, 12 V		M9PAV*1	M9PA*1	M9PAV*1	M9PA*1	0	0	•	0	<b>—</b>	0	IC CIICUII						
ű				2-wire	1	12 V			ĺ	M9BAV*1	M9BA*1	M9BAV*1	M9BA*1	0	0	•	0	_	0	_	1			
	With diagnostic output (2-color indicator)			4-wire (NPN)	1	5 V, 12 V		_	H7NF	_	F79F	•	<u> </u>	•	0	<u> </u>	0	IC circuit	circuit					
switch								.,	3-wire (NPN equivalent)	_	5 V	_	A96V	A96	A96V	A96	•	-	•	_	-	_	IC circuit	_
\ <u>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</u>		Grommet	Yes		1	_	200 V	_	_	A72	A72H	•	_	•	_	_	_							
							100 V	A93V*2	A93	A93V*2	A93	•	•	•	•	_	_	_						
anto			No	0		12 V	100 V or less	A90V	A90	A90V	A90	•	_	•	_	_	_	IC circuit	Relay,					
ğ		0	Yes	2-wire	24 V	12 V	_	_	C73C	A73C	_	•	_	•	•	•	_	_	PLC					
Reed		Connector	No				24 V or less	_	C80C	A80C	_	•	_	•	•	•	_	IC circuit						
_	Diagnostic indication (2-color indicator)	Grommet	Yes	1		_	_	_	_	A79W	_	•	-	•	_	<u> </u>	_	_	1					

- \*1: Water resistant type auto switches can be mounted on the above models, but in such case SMC cannot guarantee water resistance. Please contact 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) M9NWM 3 m----- L (Example) M9NWL

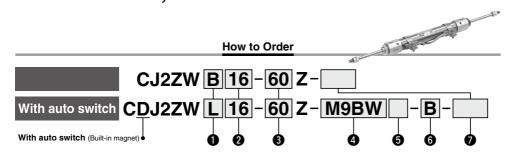
······ Z (Example) M9NWZ None----- N (Example) H7CN

- \*: Since there are other applicable auto switches than listed, refer to page 179 for details.
- \*: Solid state auto switches marked with "O" are produced upon receipt of order.

## Air Cylinder: Built-in Speed Controller Type **Double Acting, Double Rod**

# CJ2ZW Series ø10, ø16





### Mounting

В	Basic
L	Foot
F	Flange

\*: Foot/Flange brackets are shipped together with the product, but not assembled.

#### Auto switch

Without auto switch

- \*: For applicable auto switches, refer to the table below
- ★ Enter the auto switch mounting type (A or B) even when a built-in magnet cylinder without an auto switch is required.

### Bore size

s

n

10 10 mm 16 16 mm

Number of auto switches

2 pcs

1 pc.

"n" pcs

### 3 Cylinder standard stroke [mm] Refer to "Standard Strokes" on page 145.

<u> </u>	Auto switch mounting type
Α	Rail mounting
В	Band mounting

- For rail mounting, screws and nuts for 2 auto switches come with the rail
- \*: Refer to page 178 for auto switch mounting brackets.

### Made to Order

Refer to page 145 for details.

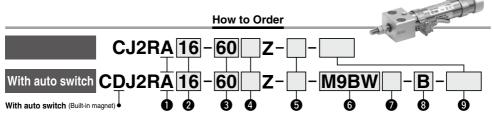
				F			for further i											
	Electrical	ig ig	Wiring		Load v	oltage					Lea	d wir	e ler	ngth	[m]	Dro.wirod	Annli	cable
Special function					DC	AC	Band m	ounting	Rail mo	unting	0.5	1	3	5	None			
	Citaly	jg.					Perpendicular	In-line	Perpendicular	In-line	(Nil)	(M)	(L)	(Z)	(N)	CONTINUOTO		
			3-wire (NPN)		E V 10 V		M9NV	M9N	M9NV	M9N	•	•	•	0	<b> </b> -	0	IC aircuit	
	Grommet		3-wire (PNP)		5 V,12 V		M9PV	M9P	M9PV	M9P	•	•	•	0	<u> </u>	0	IC CITCUIT	j
Connector			O suino		10.1/		M9BV	M9B	M9BV M9B	•	•	•	0	<b> </b> –	0			
		2-wire	12 V		_	H7C	J79C	_	•	<b> </b> -	•	• •	_	-				
Diagnostic indication (2-color indicator)			3-wire (NPN)	1	E 1/ 40 1/		M9NWV	M9NW	M9NWV	M9NW	•	•	•	0	_	0	10	1
		Yes	3-wire (PNP)	N) P)	5 V, 12 V	_	M9PWV	M9PW	M9PWV	M9PW	•	•	•	0	_	0	IC CIRCUIT	Helay,
			2-wire		12 V		M9BWV	M9BW	M9BWV	M9BW	•	•	•	0	_	0	_	FLC
Water resistant (2-color indicator)	Grommet		3-wire (NPN)		5 V 40 V		M9NAV*1	M9NA*1	M9NAV*1	M9NA*1	0	0	•	0	<b> </b> —	0	10	
			3-wire (PNP)		5 V, 12 V		M9PAV*1	M9PA*1	M9PAV*1	M9PA*1	0	0	•	0	-	0	Tic circuii	1
			2-wire		12 V		M9BAV*1	M9BA*1	M9BAV*1	M9BA*1	0	0	•	0	<b> </b> —	0	_	Ī
With diagnostic output (2-color indicator)			4-wire (NPN)		5 V,12 V		_	H7NF	_	F79F	•	<b> </b> —	•	0	<b> </b> —	0	IC circuit	
		Vaa	3-wire (NPN equivalent)	_	5 V	_	A96V	A96	A96V	A96	•	_	•	-	_	_	IC circuit	_
	Grommet	res		1	_	200 V	_	_	A72	A72H	•	_	•	_	_	_		
						100 V	A93V*2	A93	A93V*2	A93	•	•	•	•	_	_	_	
		No			40.1/	100 V or less	A90V	A90	A90V	A90 •	<b>—</b>	•	_	_	_	IC circuit	Relay,	
	0	Yes	∠-wire	24 V	12 0	_	_	C73C	A73C	_	•	<b> </b> —	•	•	•	_	_	PLĆ
	Connector	No				24 V or less	_	C80C	A80C	_	•	<u> </u>	•	•	•	_	IC circuit	
Diagnostic indication (2-color indicator)	Grommet	Vac	ĺ		_	_	_		A79W	_		1_	•	1	Ĺ	_	_	1
	Diagnostic indication (2-color indicator)  Water resistant (2-color indicator)  With diagnostic output (2-color indicator)	Special function entry  Grommet  Connector  Diagnostic indication (2-color indicator)  Water resistant (2-color indicator)  White degressic output (2-color indicator)  Grommet  Connector	Connector   Grommet   Connector	Special function	Special function	Special function   Electrical   Section   Se	Special function   Electrical E	Special function   Electrical and entry   Section   Se	Special function	Special function	Special function	Special function   Electrical   Find   Fi	Special function   Electrical   Find   Fin	Special function   Electrical   Fig.   Special function   Electrical   Fig.   Special function   Electrical   Fig.   Special function   Fig.   Sp	Special function	Special function	Special function   Electrical   Floating   Special function   Specia	Special function   Electrical   Special function   Electrical   Special function   Electrical   Special function   Electrical   Special function   Electrical   Special function   Electrical   Special function   Electrical   Special function   Electrical   Electri

- \*1: Water resistant type auto switches can be mounted on the above models, but in such case SMC cannot guarantee water resistance. Please contact 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) M9NWM
  - 3 m..... L (Example) M9NWL 5 m----- Z (Example) M9NWZ None----- N (Example) H7CN
- \*: Since there are other applicable auto switches than listed, refer to page 179 for details.
- \*: Solid state auto switches marked with "O" are produced upon receipt of order.
- \*: The D-A9□/M9□/A7□/A80□/F7□/J7□ auto switches are shipped together, but not assembled. (For band mounting, only auto switch mounting brackets are assembled before being shipped.)

## Air Cylinder: Direct Mount Type **Double Acting, Single Rod**

# CJ2R Series ø10, ø16





### Mounting

Bottom mounting

9	Bore size
10	10 m
16	16 m

#### 3 Cylinder standard stroke [mm] Refer to "Standard Strokes" on page 150.

### 6 Auto switch

Without auto switch \*: For applicable auto switches, refer to the table below.

★ Enter the auto switch mounting type (A or B) even when a built-in magnet cylinder without an auto switch is required.

Nil

s

4 He	ad cover port lo	cation				
Nil	Perpendicular to axis					
R	Axial					

2 pcs.

1 pc "n" pcs.

### Rod end bracket

Nil	None
٧	Single knuckle joint
W**	Double knuckle joint
Т	Rod end cap (Flat type)
U	Rod end cap (Round type)

- \*: Rod end bracket is shipped together with the product, but not assembled. \*\*: Refer to page 91 for the double knuckle joint (with one-
- touch connecting pin).

### Number of auto switches

<u>8</u>	Auto switch mounting type
Α	Rail mounting
В	Band mounting

- \*: For rail mounting, screws and nuts for 2 auto switches come with the rail
- \*: Refer to page 178 for auto switch mounting brackets.

 Made to Order Refer to page 150 for details.

\*: Refer to "Ordering Example of Cylinder Assembly" on page 150.

		F14	ligh	Wiring		Load v	oltage		Auto swit	ch model		Lea	d wir	e lei	ngth	[m]	Pre-wired	Annli	cable
Туре	Special function	Electrical entry		(Output)		DC	AC	Band m	ounting	Rail mo	ounting	0.5	1	3	5	None	connector		ad
		ona y	Indicat	(Output)		DO	AO	Perpendicular	In-line	Perpendicular	In-line	(Nil)	(M)	) (L)	(Z)	(N)	CONTINUESTON	10.	au
				3-wire (NPN)	J	5 V, 12 V		M9NV	M9N	M9NV	M9N	•	•	•	0	<u>  — </u>	0	IC circuit	
ᇨ	<del></del>	Grommet		3-wire (PNP)		J V, 12 V		M9PV	M9P	M9PV	M9P	•	•	•	0	<u>  —</u>	0	IO GIIGGII	
switch				2-wire		12 V		M9BV	M9B	M9BV	M9B	•	•	•	0	<u>  — </u>	0	_	
		Connector	ļ	Z-WIIE		12 V		_	H7C	J79C	_	•	<u>  —</u>	•	•	•	_		
auto	Diagnostic indication (2-color indicator)			3-wire (NPN)		E V 10 V		M9NWV	M9NW	M9NWV	M9NW	•	•	•	0	-	0	IC circuit	Deless
			Yes	3-wire (PNP)	24 V	5 V, 12 V	_	M9PWV	M9PW	M9PWV	M9PW	•	•	•	0	-	0	IIC CIICUII	PLC
state				2-wire		12 V		M9BWV	M9BW	M9BWV	M9BW	•	•	•	0	-	0	—	1 20
	Water resistant Gr	Grommet		3-wire (NPN)		5 V, 12 V		M9NAV*1	M9NA*1	M9NAV*1	M9NA*1	0	0	•	0	-	0	IC circuit	
Solid	(2-color indicator)			3-wire (PNP)		5 V, 12 V		M9PAV*1	M9PA*1	M9PAV*1	M9PA*1	0	0	•	0	-	0	IIC CITCUIT	
Ñ	(2-color indicator)			2-wire		12 V		M9BAV*1	M9BA*1	M9BAV*1	M9BA*1	0	0	•	0	-	0	l —	
	With diagnostic output (2-color indicator)			4-wire (NPN)		5 V, 12 V		_	H7NF	_	F79F	•	-	•	0	-	0	IC circuit	C circuit
switch				3-wire (NPN equivalent)	_	5 V	_	A96V	A96	A96V	A96	•	_	•	_	_	_	IC circuit	_
3		Grommet	Yes		1	_	200 V	_	_	A72	A72H	•	<u> </u>	•	_	<b>—</b>	_		
							100 V	A93V*2	A93	A93V*2	A93	•	•	•	•	<b>—</b>	_	1 —	
anto			No			40.1/	100 V or less	A90V	A90	A90V	A90	•	_	•	_	<b>—</b>	_	IC circuit	Relay,
ğ		Cannastas	Yes	2-wire	24 V	12 V	_	_	C73C	A73C	_	•	-	•	•	•	_	_	PLĆ
Reed		Connector	No				24 V or less	_	C80C	A80C	_	•	<b> </b> —	•	•	•	_	IC circuit	
_	Diagnostic indication (2-color indicator)	Grommet	Yes			_	_	_	_	A79W	_	•	-	•	_	1-	_	_	1

- \*1: Water resistant type auto switches can be mounted on the above models, but in such case SMC cannot guarantee water resistance. Please contact 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) M9NWM 3 m----- L (Example) M9NWL
- \*: Since there are other applicable auto switches than listed, refer to page 179 for details
- 5 m..... Z (Example) M9NWZ \*: Solid state auto switches marked with "O" are produced upon receipt of order.

### Air Cylinder: Direct Mount Type Single Acting, Spring Return/Extend

CJ2R Series ø10, ø16



How to Order CJ2RA 16 - 45 S CDJ2RA 16 With auto switch With auto switch (Built-in magnet)

### Mounting 1

Bottom mounting

<b>2</b>	Bore size	
10		10 mm

#### 3 Cylinder standard stroke [mm] Refer to "Standard Strokes" on page 154.

Action Single acting, Spring return Single acting, Spring extend

### Head cover port location

Nil	Perpendicular to axis	
R	Axial	

\*: Not applicable to single acting, spring extend (T).

### 6 Rod end bracket

Nil	None
٧	Single knuckle joint
W**	Double knuckle joint
T	Rod end cap (Flat type)
U	Rod end cap (Round type)

- \*: Rod end bracket is shipped together with the product, but not assembled.
- \*\*: Refer to page 91 for the double knuckle joint (with one-touch connecting pin).

### Auto switch Nil Without auto switch

- \*: For applicable auto switches, refer to the table below.
- ★ Enter the auto switch mounting type (A or B) even when a built-in magnet cylinder without an auto switch is required.

### 8 Number of auto switches

ĺ	Nil	2 pcs.
	S	1 pc.
	n	"n" pcs.

### Auto switch mounting type

Rail mounting Band mounting

- \*: For rail mounting, screws and nuts for 2 auto switches come with the rail.
- \*: Refer to page 178 for auto switch mounting brackets

\*: Refer to "Ordering Example of Cylinder Assembly" on page 154.

Applicable Auto Switches/Refer to pages 1271 to 1365 for further information on auto switches.

Made to Order

Refer to page 154 for details.

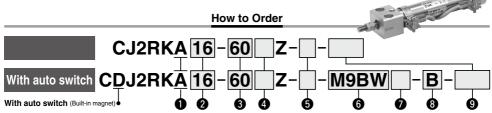
		Electrical	light	14 <i>(</i> :		Load v	oltage		Auto swit	ch model		Lead wire length [m]					D	A							
Тур	ype Special function entry		ndicator	Wiring (Output)		DC	DC AC		ounting	Rail mo	unting	0.5	1	3	5	None	Pre-wired connector		cable						
		Citily	Пá	(Output)		DO	Α0	Perpendicular	In-line	Perpendicular	In-line	(Nil)	(M)	(L)	(Z)	(N)	COLLICCIO	load							
				3-wire (NPN)		5 V,12 V		M9NV	M9N	M9NV	M9N	•	•	•	0	-	0	IC circuit							
۾ ا		Grommet		3-wire (PNP)		3 V,12 V		M9PV	M9P	M9PV	M9P	•	•	•	0	<u> </u>	0	IIO GIIGGII							
switch			ļ	2-wire		12 V		M9BV	M9B	M9BV	M9B	•	•	•	0	<u>  — </u>	0	_							
		Connector	[	Z-WIIC		12 V		_	H7C	J79C	_	•	<u>  —</u>	•	•	•	_								
anto	Diagnostic indication			3-wire (NPN)		5 V 12 V		M9NWV	M9NW	M9NWV	M9NW	•	•	•	0	<u>  —</u>	0	IC circuit	Delevi						
	(2-color indicator)		Yes	Yes	Yes	Yes	3-wire (NPN) 3-wire (PNP)	24 V	J V,12 V	_	M9PWV	M9PW	M9PWV	M9PW	•	•	•	0	<u>  —</u>	0	IO GIIGUII	PLC			
state	(2 color indicator)			2-wire		12 V		M9BWV	M9BW	M9BWV	M9BW	•	•	•	0	<u>  — </u>	0	_	. 20						
	Water resistant	Grommet		3-wire (NPN)		5 V,12 V	,	M9NAV*1	M9NA*1	M9NAV*1	M9NA*1	0	0	•	0	<u>  — </u>	0	IC circuit							
Solid	(2-color indicator)			3-wire (PNP)	L			M9PAV*1	M9PA*1	M9PAV*1	M9PA*1	0	0	•	0	<u>  — </u>	0	IO GIIGUII							
Ň	(2-color indicator)			2-wire	]	12 V		M9BAV*1	M9BA*1	M9BAV*1	M9BA*1	0	0	•	0	-	0	_							
	With diagnostic output (2-color indicator)			4-wire (NPN)		5 V,12 V		_	H7NF	_	F79F	•	<b> </b> —	•	0	-	0	IC circuit							
switch			v	3-wire (NPN equivalent)	_	5 V	_	A96V	A96	A96V	A96	•	-	•	-	_	_	IC circuit	_						
\ <u>=</u>		Grommet	Yes		1	_	200 V	_	_	A72	A72H	•	_	•	_	<b>—</b>	_								
							100 V	A93V*2	A93	A93V*2	A93	•	•	•	•	<u> </u>	_	1 —							
anto			No			10.1/	100 V or less	A90V	A90	A90V	A90	•	I —	•	_	I-	_	IC circuit	Relay,						
		Connector	Yes	2-wire	24 V	12 V	_	_	C73C	A73C	_	•	_	•	•	•	_	_	PLĆ						
چ	Reed	Connector	No	1	ĺ								24 V or less	_	C80C	A80C	_	•	_	•	•	•	_	IC circuit	
	Diagnostic indication (2-color indicator)	Grommet	Yes				_	_	_	A79W	_	•	_	•	_	-	_	_							

- \*1: Water resistant type auto switches can be mounted on the above models, but in such case SMC cannot guarantee water resistance. Please contact 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) M9NWM
  - 3 m----- L (Example) M9NWL 5 m····· Z (Example) M9NWZ None----- N (Example) H7CN
- \*: Since there are other applicable auto switches than listed, refer to page 179 for
- \*: Solid state auto switches marked with "O" are produced upon receipt of order.

# Air Cylinder: Direct Mount, Non-rotating Rod Type Double Acting, Single Rod

# CJ2RK Series





## Mounting A Bottom mounting

<b>0</b> 1	Bore size	
10	10 mm	Ξ
16	16 mm	_

### Rod end bracket

Nil	Perpendicular to axis	
R	Axial	

Head cover port location

Nil	None
V	Single knuckle joint
W**	Double knuckle joint
Т	Rod end cap (Flat type)
U	Rod end cap (Round type)
ΰ	

- \*: Rod end bracket is shipped together with the product, but not assembled. \*\*: Refer to page 91 for the double knuckle
  - \*\*: Refer to page 91 for the double knuckle joint (with one-touch connecting pin).

### 3 Cylinder standard stroke [mm] Refer to "Standard Strokes" on page 158.

### 6 Auto switch

- Nil Without auto switch

  \*: For applicable auto switches, refer to the table below.
- ★ Enter the auto switch mounting type (A or B) even when a built-in magnet cylinder without an auto switch is required.

<b>7</b> Nur	mber of auto switches
MII	0

•	
Nil	2 pcs.
S	1 pc.
n	"n" pcs.

# A Rail mounting B Band mounting

- 9 Made to Order Refer to page 158 for details.
- \*: For rail mounting, screws and nuts for 2 auto switches come with the rail.

  \*: Refer to page 178 for auto switch mounting brackets.

\*: Refer to "Ordering Example of Cylinder Assembly" on page 158.

### Applicable Auto Switches/Refer to pages 1271 to 1365 for further information on auto switches

	Flor		ight	Wiring		Load v	oltage		Auto swit	ch model		Lea	d wir	e ler	ngth	[m]	Pre-wired	Anni	aabla
Type	Special function	Electrical entry		(Output)		DC	AC	Band mounting Rail mounting		0.5	1	3	5	None	connector		cable ad		
		Citily	Indica	(Output)		ьс	Α0	Perpendicular	In-line	Perpendicular	In-line	(Nil)	(M)	(L)	(Z)	(N)	COLLICCIO	10	au
				3-wire (NPN)		5 V,12 V		M9NV	M9N	M9NV	M9N	•	•	•	0	-	0	IC circuit	
ڃ		Grommet		3-wire (PNP)		J V, 12 V		M9PV	M9P	M9PV	M9P	•	•	•	0	<u>  — </u>	0	IIO CIICUII	
switch			ļ	2-wire		12 V		M9BV	M9B	M9BV	M9B	•	•	•	0	<u>  - </u>	0	l _	
		Connector		Z-WIIC		12 V		_	H7C	J79C	_	•	-	•	•	•	_		
anto	Diagnostic indication			3-wire (NPN)		5 V,12 V		M9NWV	M9NW	M9NWV	M9NW	•	•	•	0	<u>  — </u>	0	IC circuit	Dolov
	(2-color indicator)		Yes	3-wire (PNP)	24 V	5 V,12 V	_	M9PWV	M9PW	M9PWV	M9PW	•	•	•	0	<u>  - </u>	0	io diredit	PLC
state	(E color iridicator)		ı	2-wire		12 V		M9BWV	M9BW	M9BWV	M9BW	•	•	•	0	<u>  —</u>	0	_	. 20
	Water resistant	Grommet		3-wire (NPN)	)	5 V,12 V		M9NAV*1	M9NA*1	M9NAV*1	M9NA*1	0	0	•	0	<u>  — </u>	0	IC circuit	
Solid	(2-color indicator)			3-wire (PNP)	J	5 V,12 V		M9PAV*1	M9PA*1	M9PAV*1	M9PA*1	0	0	•	0	<u>  — </u>	0	io diredit	j
S	(2 color iridicator)			2-wire		12 V		M9BAV*1	M9BA*1	M9BAV*1	M9BA*1	0	0	•	0	<u>  —</u>	0	_	
	With diagnostic output (2-color indicator)			4-wire (NPN)		5 V,12 V		_	H7NF	_	F79F	•	<u> </u>	•	0	<u>  —</u>	0	IC circuit	
switch			v	3-wire (NPN equivalent)	_	5 V	_	A96V	A96	A96V	A96	•	-	•	_	-	_	IC circuit	_
<u>=</u>		Grommet	Yes		1	_	200 V	_	_	A72	A72H	•	_	•	_	_	_		
							100 V	A93V*2	A93	A93V*2	A93	•	•	•	•	<u> </u>	_	-	
anto			No			40.1/	100 V or less	A90V	A90	A90V	A90	•	<b>—</b>	•	_	I-	_	IC circuit	Relay,
	<del>o</del>	Cannastas	Yes	2-wire 24	24 V	/ 12 V	_	_	C73C	A73C	_	•	_	•	•	•	_	_	PLĆ
Je .		Connector	No				24 V or less	_	C80C	A80C	_	•	-	•	•	•	_	IC circuit	1
_	Diagnostic indication (2-color indicator)	Grommet	Yes			_	_	_	_	A79W	_	•	_	•	_	1-	_	_	1

- \*1: Water resistant type auto switches can be mounted on the above models, but in such case SMC cannot guarantee water resistance. Please contact SMC regarding water resistant types with the above model numbers.
- \*2: 1 m type lead wire is only applicable to D-A93.
- \*: Since there are other applicable auto switches than listed, refer to page 179 for
- \*: Solid state auto switches marked with "O" are produced upon receipt of order.

None----- N (Example) H7CN

\*: The D-A9□/M9□/A7□/A80□/F7□/J7□ auto switches are shipped together, but not assembled. (For band mounting, only auto switch mounting brackets are assembled before being shipped.)

### Air Cylinder: Direct Mount, Non-rotating Rod Type Single Acting, Spring Return/Extend

CJ2RK Series ø10, ø16



How to Order CJ2RKA 16 - 45 S CDJ2RKA 16 With auto switch With auto switch (Built-in magnet)

### Mounting 1

Bottom mounting

### Rore size

_	
10	10 mm
16	16 mm

#### Cylinder standard stroke [mm] Refer to "Standard Strokes" on

4 Action Single acting, Spring return Single acting, Spring extend

Nil

n

8 Number of auto switches

2 pcs. 1 pc.

"n" pcs.

### Head cover port location

Nil	Perpendicular to axis	
R	Axial	10

\*: Not applicable to single acting, spring extend (T).

### 6 Rod end bracket

Nil	None							
V	Single knuckle joint							
W**	Double knuckle joint							
Т	Rod end cap (Flat type) Rod end cap (Round type)							
U								

- \*: Rod end bracket is shipped together with the product, but not assembled \*\*: Refer to page 91 for the double knuckle joint (with one-touch connecting pin).
- ★ Enter the auto switch mounting type (A or B) even when a built-in magnet cylinder without an auto

### Auto switch Without auto switch

page 161.

- \*: For applicable auto switches, refer to the table below
- switch is required.

# Rail mounting

(II) Made to Order Refer to page 161 for details.

### Auto switch mounting type

Band mounting

\*: Refer to "Ordering Example of Cylinder Assembly" on page 161.

\*: For rail mounting, screws and nuts for 2 auto switch-

es come with the rail. \*: Refer to page 178 for auto switch mounting brackets

Applicable Auto Switches/Refer to pages 1271 to 1365 for further information on auto switches Load voltage Lead wire length [m] Auto switch model Wiring Applicable Special function Band mounting Rail mounting 3 | 5 | None entry (Output) DC AC connector load (M) (L) (Z) (N) (Nil) Pemendicular In-line Perpendicular In-line 3-wire (NPN) M9NV MONV • • • 5 V.12 V C circui M9PV Gromme 3-wire (PNP) • switch M9B M9BV M9B M9BV • • 12 V 2-wire Connector J79C H7C • • 3-wire (NPN) M9NWV Diagnostic indication 5 V,12 V Yes 3-wire (PNP) 24 \ MODWW MODW MODWW MODW • • • (2-color indicator) 12 V 2-wire M9BWV M9BW M9BWV M9BW • . • Gromme 3-wire (NPN) M9NAV\*1 M9NA\* M9NAV\* M9NA\* • Water resistant 5 V,12 V IC circui Solid 3-wire (PNP M9PAV\*1 M9PA\*1 M9PAV\* M9PA\* • (2-color indicator) M9BA\*1 M9BA\*1 12 V M9BAV\* 2-wire • With diagnostic output (2-color indicato 4-wire (NPN 5 V,12 V IC circuit H7NF F79F 3-wire 5 V **A96V** Δ96 **A96V** Δ96 IC circuit (NPN equivalen Reed auto switch Yes Gromme 200 V Δ72 **A72H** 100 V A93V\*2 A93 A93V\* • No 100 V or les A90V A90 A90V A90 • IC circuit 2-wire 12 V Yes C73C A73C • • • . Connector 24 V or less A80C • • IC circuit Diagnostic indication (2-color indicator) Grommet Yes A79W • •

- \*1: Water resistant type auto switches can be mounted on the above models, but in such case SMC cannot guarantee water resistance Please contact 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 ..... M (Example) M9NWM 3 m-----1 (Example) M9NWL (Example) M9NWZ
- \*: Since there are other applicable auto switches than listed, refer to page 179 for
- \*: Solid state auto switches marked with "O" are produced upon receipt of order. \*: The D-A9 M9 A7 A60 F7 A80 F7 A80 A80 Are assembled before being shipped.)

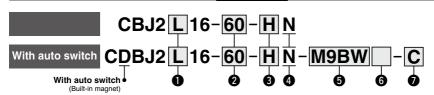
None----- N (Example) H7CN

# Air Cylinder: With End Lock

# CBJ2 Series



### How to Order



### Mounting

_	
В	Basic
L	Axial foot
F	Rod flange
D	Double clevis**

\*: Foot/Flange brackets are shipped together with the product, but not assembled.

6 Number of auto switches

2 pcs

1 pc

"n" pcs

\*\*: Rod end lock only.

Nil

S

### Cylinder standard stroke [mm]

Refer to "Standard Strokes" on page 165.

### Auto switch

Nil				Witho	out a	uto	o switch	
		 	_			_		

- \*: For applicable auto switches, refer to the table below
- ★ Enter the auto switch mounting type (A or B) even when a built-in magnet cylinder without an auto switch is required.

#### Auto switch mounting bracket

\*: This symbol is indicated when the D-A9 or M9 type auto switch is specified. This mounting bracket does not apply to other auto switches (D-C7 and H7, etc.) (Nil)

### A Lock position

•	Look poolition
Н	Head end lock
R	Rod end lock

### Manual release

Non-locking type

### **Built-in Magnet Cylinder Model**

Suffix the symbol "-A" (Rail mounting) or "-B" (Band mounting) to the end of part number for cylinder with auto switch.

Evample	Rail mounting	CDBJ2B16-45-HN-A
Example	Band mounting	CDBJ2B16-60-HN-B

- \*: For rail mounting, screws and nuts for 2 auto switches come with the rail.
- \*: Refer to page 178 for auto switch mounting brackets.

\*: Since there are other applicable auto switches than listed, refer to page 179

### Applicable Auto Switches/Refer to pages 1271 to 1365 for further information on auto switches.

	Floats		tor light	Wiring		Load vol	ltage		Auto swit	ch model		Lea	d wir	e ler	ngth	[m]	Pre-wired												
Type	Special function	Electrical entry	apor	(Output)		DC	AC P	Band m	ounting	Rail mo	ounting	0.5	1	3	5	None	connector	Applica	ble load										
		Citity	Indica	(Output)		DC		Perpendicular	In-line	Perpendicular	In-line	(Nil)	(M)	(L)	(Z)	(N)	COTHICCION												
				3-wire (NPN)		5 V,12 V		M9NV	M9N	VM6W	M9N	•	•	•	0	-	0	IC circuit											
ڃ		Grommet	et	3-wire (PNP)		5 V, 12 V		M9PV	M9P	M9PV	M9P	•	•	•	0	_	0	IC CIrcuit											
switch				0		40.1/	1	M9BV	M9B	M9BV	M9B	•	•	•	0	<b> </b> -	0		1										
S		Connector	1	2-wire		12 V		_	H7C	J79C	_	•	_	•	•	•	_	1 -											
anto			1	3-wire (NPN)	1	5 1/ 40 1/	1	M9NWV	M9NW	M9NWV	M9NW	•	•	•	0	_	0	10	١										
	Diagnostic indication (2-color indicator)		Yes	3-wire (PNP)	24 V	5 V,12 V	_	M9PWV	M9PW	M9PWV	M9PW	•	•	•	0	_	0	IC circuit	Relay,										
state		İ	net		2-wire	ĺ	12 V	1	M9BWV	M9BW	M9BWV	M9BW	•	•	•	0	<b> </b> —	0	-	PLC									
	Water resistant	Grommet			3-wire (NPN)	1	= 1/ /0 1/	.1	M9NAV*1	M9NA*1	M9NAV*1	M9NA*1	0	0	•	0	_	0	10 -11	1									
Solid				3-wire (PNP)	1	5 V,12 V	-	M9PAV*1	M9PA*1	M9PAV*1	M9PA*1	0	0	•	0	<b> </b> —	0	IC circuit											
Š	(2-color indicator)	İ		2-wire	ĺ	12 V		1	M9BAV*1	M9BA*1	M9BAV*1	M9BA*1	0	0	•	0	<b> </b> —	0	-	1									
	With diagnostic output (2-color indicator)	ĺ		4-wire (NPN)	1	5 V,12 V		_	H7NF	_	F79F	•	<b>—</b>	•	0	_	0	IC circuit	1										
switch	Gromm	J.	Grommet Yes	Grommet Ye									.,	3-wire (NPN equivalent)	_	5 V	_	A96V	A96	A96V	A96	•	-	•	_	_	_	IC circuit	_
×		Gr			Grommet Yes — 200 V — — A72		A72H	•	1-	•	_	_	_																
		İ					100 V	A93V*2	A93	A93V*2	A93	•	•	•	•	_	_	_											
anto	Co	Ī	No	No				100 V or less	A90V	A90	A90V	A90	•	-	•	_	_	_	IC circuit	Relay,									
ğ		Connector	Yes	Yes	. Yes								. Yes	Yes	2-wire 24 V	/ 12 V	_	_	C73C	A73C	_	•	-	•	•	•	_	_	PLC
Reed			nector	No	1			24 V or less	_	C80C	A80C	_	•	1-	•	•	•	_	IC circuit	1									
-	Diagnostic indication (2-color indicator)	Grommet	Yes	1		_	_	_	_	A79W	_	•	-	•	_	_	_	_	ĺ										

- \*1: Water resistant type auto switches can be mounted on the above models, but in such case SMC cannot guarantee water resistance. Please contact 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) M9NWM
  - 3 m······ L (Example) M9NWL 5 m····· Z (Example) M9NWZ None ...... N (Example) H7CN
- \*: Solid state auto switches marked with "O" are produced upon receipt of order.
- \*: The D-A9□/M9□/A7□/A80□/F7□/J7□ auto switches are shipped together, (but not assembled). (However, when the D-A9□/M9□ types are selected, only auto

for details

- switch mounting brackets are assembled before being shipped.)
- \*: When the D-A9\(\times\)/M9\(\times\) types are mounted on a rail, order auto switch mounting brackets separately. Refer to page 178 for details.