Clamp Cylinder with Lock with Magnetic Field Resistant Auto Switch Rod Mounting

Series CLK2G/CLK2P

Ø40, Ø50, Ø63



How to Order

100 Y



Built-in strong magnet type with magnetic field resistant auto switch

Clevis width

A 16.5 mm Ø40, Ø50, Ø63

B 19.5 mm Ø50, Ø63

CLK2P A 50

CLK2G A 50

Port type (
Nil Rc
TN NPT

Built-in Standard (Strong) Magnet Cylinder Part No.

 Built-in standard (strong) magnet type without auto switch and switch mounting rod Symbol for the auto switch type is "Nil" as shown below.

CLK2G: (Example) CLK2GA50-50Y CLK2P: (Example) CLK2PA50-50Y

 Built-in standard (strong) magnet type without auto switch, with switch mounting rod
 Symbol for the auto switch type is "P" as shown below.

CLK2G: (Example) CLK2GA50-50Y-P CLK2P: (Example) CLK2PA50-50Y-P

End bracket

Option 4

Nil	None
I	Single knuckle joint (M6 without tap)
IA	Single knuckle joint (M6 with tap)
Υ	Double knuckle joint (M6 without tap)
YA	Double knuckle joint (M6 with tap)

Cylinder stroke

50, 75, 100, 125, 150

Note) Pin (for knuckle), cotter pin and flat washer are provided as a standard for Y

	Nil	None
	В	Limit switch mounting base
	D	Dog fitting Note 1)
	L	Foot
K	Note 2)	Pedestal (for 75, 100, 150 strokes only)

Note 1) When the dog bracket is selected, choose the rod end bracket IA or YA (M6 with tap).

Note 2) Clevis width B is not available with mounting base K.

Number of auto switches

••	,,,,,	or date entitories
Nil S		2 pcs.
		1 pc.
	n	"n" pcs. (n = 3, 4, 5···n)

Auto switch

Nil	Without auto switch, Without switch mounting rod
Р	Without auto switch, With switch mounting rod
Auto switch model	With auto switch, With switch mounting rod

Note) Select applicable auto switch models from the table below.

Switch mounting rod position

Nil	Тор	
L	Left	
R	Right	

Note 1) Viewed from the rod end.

Note 2) When the auto switch D-P79WSE is mounted, by-pass piping and a switch mounting rod cannot be place at the same position.

Port/By-pass piping position * Refer to page 2.

ocking direction

	oking an collon
В	Retraction locking
F	Extension locking

Applicable Magnetic Field Resistant Auto Switches (Refer to page 21 through to 25 for detailed auto switch specifications.)

Applicable cylinder series	Туре	Auto switch model	Applicable magnetic field	Electrical entry	Indicator light	Wiring (Pin no. in use)	Load voltage	Lead wire length	Applicable load
CLK2G series	Solid state switch	P4DWSC	AC mas an atic field			2-wire (3–4)	- 24 VDC	0.3 m	
		P4DWSE		Pre-wired connector	2-color display	2-wire (1–4)			
		P4DWL		Grommet		2-wire		3 m	
		P4DWZ						5 m	Relay, PLC
CLK2P series	Reed switch	P79WSE	9WSE	Pre-wired connector	2-color display	2-wire (1–4)	24 VDC	0.3 m	
		Reed switch P74L DC / AC magnetic field	Grommet	1-color display	2-wire	24 VDC 100 VAC	3 m		
		P74Z (Pre-wired connector	(Pre-wired connector)				5 m		

Note 1) PLC: Programmable Logic Controller

Note 2) Refer to page 17 when ordering the auto switch mounting bracket assembly or switch mounting rod assembly.

Clamp Cylinder with Lock With Magnetic Field Resistant Auto Switch Series CLK2G/CLK2P



Symbol







Extension locking type

Standard Stroke

Bore size (mm)	Standard stroke (mm)
40, 50, 63	50, 75, 100, 125, 150

Port/By-pass Piping Position

	Bort By-pass Locking direction					
Symbol	Port position	piping position	B: Retraction locking	F: Extension locking		
Nil	Port By-pass on piping top on left					
2	Port on left	on piping ⇒		⇒ 🕽		
3	Port on right	By-pass piping on left		Ū.		
4	Port By-pa on pipin top on rig		_			
5	Port on left	By-pass piping on top	_			
6	Port on right	By-pass piping on top	_			

□ Port By-pass piping

Clamp Cylinder with Lock Specifications

Bore size	40	50	63		
Action	Double acting, Single rod				
Fluid	Air				
Proof pressure		1.5 MPa			
Maximum operating pressure		1.0 MPa			
Minimum operating pressure		0.2 MPa			
Locking action		Spring locking			
Locking pressure	0.05 MPa				
Locking direction	One direction (Retraction, Extension)				
Lock holding force N Note 1)	0.5 MPa or equivalent				
(Max. static load)	629	982	1559		
Lock application	Drop	prevention, Position ho	olding		
Ambient and fluid temperature	Without auto switch: −10°C to 70°C				
Ambient and huld temperature	With auto switch : -10°C to 60°C				
Lubrication		Non-lube			
Piston speed	50 to 500 mm/s				
Stroke length tolerance	+1.0/0				
Cushion	Retraction direction (Head end): With air cushion				
Thread tolerance	JIS Class 2				
Mounting	Double clevis Note 2)				

Note 1) Be sure to comply with guidelines in the back of page 3 when selecting cylinders.

Note 2) Pin (for clevis), cotter pin, flat washer are equipped as standard.

Clevis width	16.5 mm	ø40, ø50, ø63
Cievis width	19.5 mm	ø50, ø63

Weight (Basic weight is for a 0 mm stroke.)

				Unit: kg
Bore size (mm)		40	50	63
Cylinder	CLK2G series	B: 1.05 F: 1.11	B: 1.48 F: 1.54	B: 1.96 F: 2.02
basic	CLK2P series	B: 1.12 F: 1.18	B: 1.49 F: 1.55	B: 2.06 F: 2.08
weight	Additional weight per 25 mm stroke	0.08	0.11	0.13
Single knud	Single knuckle joint		0.20	
Double knuckle joint (Pin, cotter pin, flat washer are included.)		0.36	0.34	
Limit switch	h mounting base		0.22	
Dog fitting		0.12		
Foot		0.24		
Pedestal		2.04		

Note) The above values do not include the weight of the auto switch and bracket.

Calculation

- Basic weight ··· 1.49 (ø50)
- Double knuckle joint ··· 0.34 (Y)

- Example) CLK2PB50-100Y-B
 - Cylinder stroke ··· 100 mm
- Additional weight ··· 0.11/25 mm $1.49 + 0.11 \times 100 / 25 + 0.34 = 2.27 \text{ kg}$

Theoretical Output

							Unit: N
Bore size	Rod size	Operating	Piston area		Operating pre	essure (MPa)	
(mm)	(mm)	direction	(mm ²)	0.3	0.4	0.5	0.6
40	16	OUT	1260	378	504	630	756
40		IN	1060	318	424	530	636
FO	20	OUT	1960	588	784	980	1180
50	20	IN	1650	495	660	825	990
60	20	OUT	3120	934	1250	1560	1870
63	20	IN	2800	840	1120	1400	1680

Accessories (Options)

					Parts	s no.		
Symbol		Description		CLK2GA series	/CLK2PA	CLK2GB/CLK2PB series		
0,				40	50, 63	50, 63		
1	Single knu	adda ioint	M6 without tap	CLK-I04		CKB-I04		
IA	Sirigle Kild	ickie joint	M6 with tap	CLK-IA04		CKB-IA04		
Y		uckle joint (knuckle pin, flat washer	M6 without tap	CLK-Y04	CKA-Y04	CKB-Y04		
YA		ed as a standard.)	M6 with tap	CLK-YA04	CKA-YA04	CKB-YA04		
В	L	imit switch mountin	g base	CK-B04				
D		Dog fitting		CK-D04				
L		Foot		CK-L04				
		For 75 s	troke	CKA-	-K075	_		
K	Pedestal	For 100	stroke	CKA-	-K100	_		
		For 150	stroke	CKA-	K150	_		

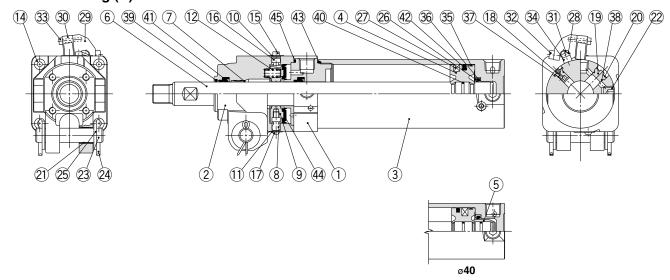


Series CLK2G/CLK2P

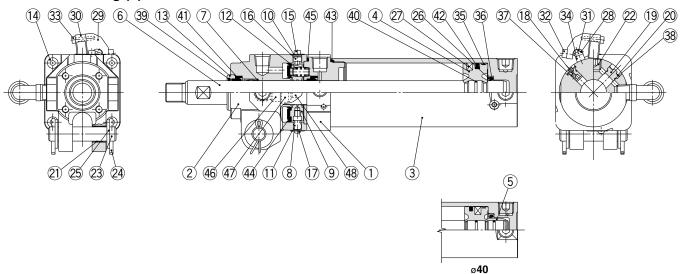
Construction: CLK2G □ 40/50/63

Built-in Standard Magnet Type / With Magnetic Field Resistant Auto Switch (D-P4DW□ type)

Retraction locking (B)



Extension locking (F)



Component Parts

Description	Material	Otv	Note
•			Hard anodized
		-	Hard anodized
	,		Hard anodized
Piston	Aluminum alloy	1	Chromated
Cushion ring	Copper alloy	1	ø40 only
Piston rod	Carbon steel	1	Hard chrome plated
Bushing	Copper alloy	1	
Pivot	Carbon steel	1	Heat treated, Electroless nickel plated
Lock ring	Carbon steel	1	Zinc chromated
Dust cover	Stainless steel	1	
Dust cover	Stainless steel	1	
Brake spring	Steel wire	2	Zinc chromated
Retainer plate	Aluminum alloy	1	Anodized, Extension locking only
Hexagon socket head cap screw	Chrome molybdenum steel	4	Nickel plated
Hexagon socket head cap screw	Chrome molybdenum steel	1	Nickel plated
Hexagon socket head cap screw	Chrome molybdenum steel	1	Nickel plated
Round head Phillips screw	Chrome molybdenum steel	1	Nickel plated
Cushion valve	Aluminum alloy	1	
Plug	Aluminum alloy	1	
Retaining ring	Spring steel	2	
Clevis bushing	Oil-impregnated sintered alloy	2	
Hexagon socket head plug	Carbon steel	4(5)	Rc1/4, 5 pcs. of extension locking
Pin	Carbon steel	1	
Cotter pin	Low carbon steel wire rod	2	Zinc chromated
	Description Rod cover Cover Tube cover Piston Cushion ring Piston rod Bushing Pivot Lock ring Dust cover Brake spring Retainer plate Hexagon socket head cap screw Hexagon socket head cap screw Cushion valve Plug Retaining ring Clevis bushing Hexagon socket head plug Pin	Description Material Rod cover Aluminum alloy Cover Aluminum alloy Tube cover Aluminum alloy Piston Aluminum alloy Piston Carbon steel Bushing Copper alloy Pivot Carbon steel Lock ring Carbon steel Dust cover Stainless steel Dust cover Stainless steel Brake spring Steel wire Retainer plate Aluminum alloy Hexagon socket head cap screw (hrome molybdenum steel Round head Phillips screw Chrome molybdenum steel Round head Phillips screw Aluminum alloy Plug Aluminum alloy Retaining ring Spring steel Clevis bushing Oli-impregnated sintered alloy Pin Carbon steel Pin Carbon steel	Description Material Qty Rod cover Aluminum alloy 1 Cover Aluminum alloy 1 Tube cover Aluminum alloy 1 Piston Aluminum alloy 1 Cushion ring Copper alloy 1 Piston Carbon steel 1 Bushing Copper alloy 1 Pivot Carbon steel 1 Lock ring Carbon steel 1 Lock ring Carbon steel 1 Dust cover Stainless steel 1 Dust cover Stainless steel 1 Brake spring Steel wire 2 Retainer plate Aluminum alloy 1 Hexagon socket head cap screw Chrome molybdenum steel 4 Hexagon socket head cap screw Chrome molybdenum steel 1 Round head Phillips screw Chrome molybdenum steel 1 Cushion valve Aluminum alloy 1 Retaining ring Spring steel 2 Clevis bushing Oil-impregnated sintered alloy 2 Hexagon socket head plug Carbon steel 4(5) Pin Carbon steel 1 Cover Carbon steel 4(5)

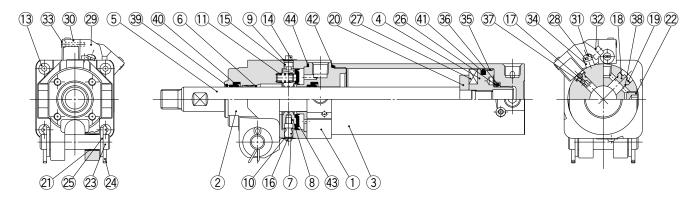
No.	Description	Material	Qty	Note
25	Flat washer	Rolled steel	2	Zinc chromated
26	Cushion seal retainer	Rolled steel	1	Zinc chromated
27	Magnet	Magnetic material	1	
28	Switch mounting rod	Carbon steel	1	Zinc chromated
29	Switch mounting bracket	Aluminum alloy	_	
30	Magnetic field resistant auto switch	_	_	
31	Hexagon socket head button screw	Chrome molybdenum steel	2	Nickel plated, M4 x 0.7 x 12 L
32	Hexagon socket head cap screw	Chrome molybdenum steel	2 pcs. per switch	Nickel plated, M4 x 0.7 x 8 L
33	Hexagon socket head cap screw	Chrome molybdenum steel	2 pcs. per switch	Nickel plated, M3 x 0.5 x 14 L
34	Switch mounting spacer	Aluminum alloy	1(2)	2 pcs. for ø63
35	Wear ring	Resin	1	
36	Cushion seal	Urethane	1	
37	Cushion valve seal	NBR	1	
38	Plug gasket	NBR	1	
39	Coil scraper	Phosphor bronze	1	
40	Piston gasket	NBR	1	
41	Rod seal	NBR	2	
42	Piston seal	NBR	1(2)	2 pcs. for ø40
43	Tube gasket	NBR	1	
44	Lock ring seal	NBR	1	
45	O-ring	NBR	1	
46	FR one-touch fitting		2	Extension locking only
47	Spatter cover		2	Extension locking only
48	FR double layer tube		1	Extension locking only

Clamp Cylinder with Lock With Magnetic Field Resistant Auto Switch Series CLK2G/CLK2P

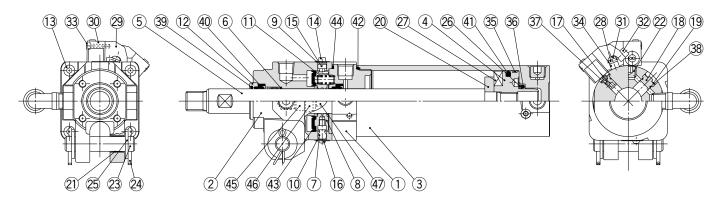
Construction: CLK2P□40/50/63

Built-in Strong Magnet Type / With Magnetic Field Resistant Auto Switch (D-P7□□ type)

Retraction locking (B)



Extension locking (F)



Component Parts

No.	Description	Material	Qty	Note
1	Rod cover	Aluminum alloy	1	Hard anodized
2	Cover	Aluminum alloy	1	Hard anodized
3	Tube cover	Aluminum alloy	1	Hard anodized
4	Piston	Aluminum alloy	1	Chromated
5	Piston rod	Carbon steel	1	Hard chrome plated
6	Bushing	Copper alloy	1	
7	Pivot	Carbon steel	1	Heat treated, Electroless nickel plated
8	Lock ring	Carbon steel	1	Zinc chromated
9	Dust cover	Stainless steel	1	
10	Dust cover	Stainless steel	1	
11	Brake spring	Steel wire	2	Zinc chromated
12	Retainer plate	Aluminum alloy	1	Anodized, Extension locking only
13	Hexagon socket head cap screw	Chrome molybdenum steel	4	Nickel plated
14	Hexagon socket head cap screw	Chrome molybdenum steel	1	Nickel plated
15	Hexagon socket head cap screw	Chrome molybdenum steel	1	Nickel plated
16	Round head Phillips screw	Chrome molybdenum steel	1	Nickel plated
17	Cushion valve	Aluminum alloy	1	
18	Plug	Aluminum alloy	1	
19	Retaining ring	Spring steel	2	
20	Magnet holder	Aluminum alloy	1	Chromated
21	Clevis bushing	Oil-impregnated sintered alloy	2	
22	Hexagon socket head plug	Carbon steel	4(5)	Rc1/4, 5 pcs. of extension locking
23	Pin	Carbon steel	1	
24	Cotter pin	Low carbon steel wire rod	2	Zinc chromated

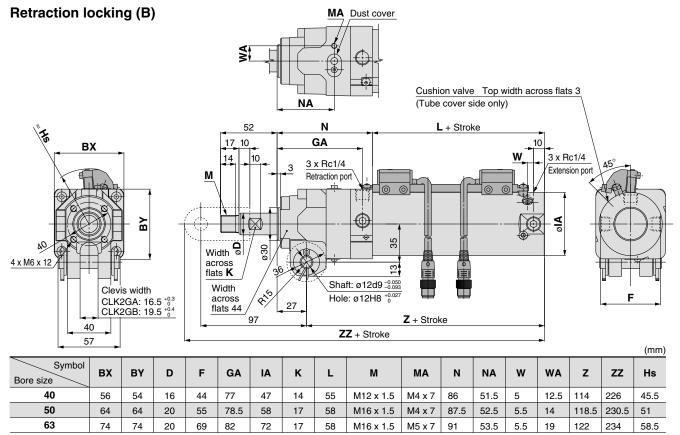
			_	
No.	Description	Material	Qty	Note
25	Flat washer	Rolled steel	2	Zinc chromated
26	Cushion seal retainer	Rolled steel	1	Zinc chromated
27	Magnet	Magnetic material	1	
28	Switch mounting rod	Carbon steel	1	Zinc chromated
29	Switch mounting bracket	Aluminum alloy	_	
30	Magnetic field resistant auto switch	ı	_	
31	Hexagon socket head button screw	Chrome molybdenum steel	2	Nickel plated, M4 x 0.7 x 12 L
32	Hexagon socket head cap screw	Chrome molybdenum steel	2 pcs. per switch	Black zinc chromated, M4 x 0.7 x 8 L
33	Hexagon socket head cap screw	Chrome molybdenum steel	2 pcs. per switch	Black zinc chromated, M3 x 0.5 x 16 L
34	Switch mounting spacer	Aluminum alloy	1(2)	2 pcs. for ø63
35	Wear ring	Resin	1	
36	Cushion seal	Urethane	1	
37	Cushion valve seal	NBR	1	
38	Plug gasket	NBR	1	
39	Coil scraper	Phosphor bronze	1	
40	Rod seal	NBR	2	
41	Piston seal	NBR	1	
42	Tube gasket	NBR	1	
43	Lock ring seal	NBR	1	
44	O-ring	NBR	1	
45	FR one-touch fitting		2	Extension locking only
46	Spatter cover		2	Extension locking only
47	FR double layer tube		1	Extension locking only



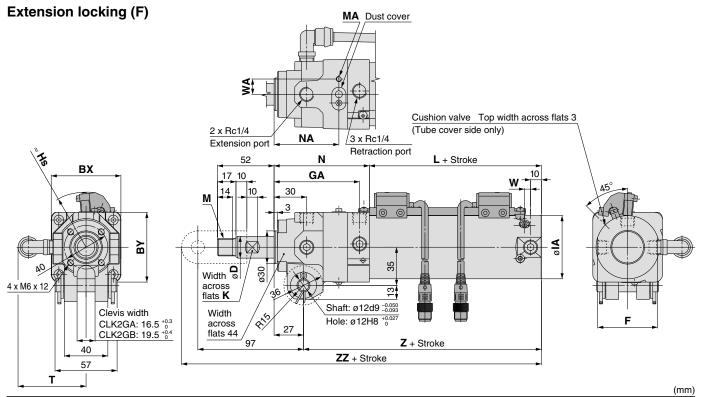
Series CLK2G/CLK2P

Dimensions: CLK2G □ 40/50/63

Built-in Standard Magnet Type / With Magnetic Field Resistant Solid State Switch (D-P4DW□ type)



Note) Refer to page 14 and 15 for Accessories.

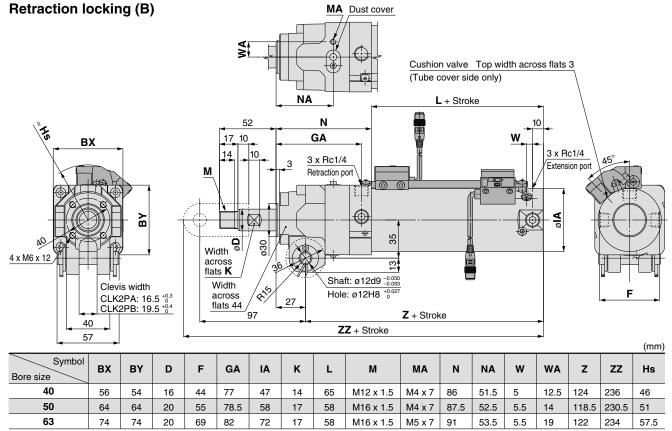


Symbol Bore size	вх	ву	D	F	GA	IA	к	L	М	MA	N	NA	т	w	WA	z	zz	Hs
40	56	54	16	44	77	47	14	55	M12 x 1.5	M4 x 7	86	59	57	5	12.5	114	226	45.5
50	64	64	20	55	78.5	58	17	58	M16 x 1.5	M4 x 7	87.5	59.5	60	5.5	14	118.5	230.5	51
63	74	74	20	69	82	72	17	58	M16 x 1.5	M5 x 7	91	61	67	5.5	19	122	234	58.5

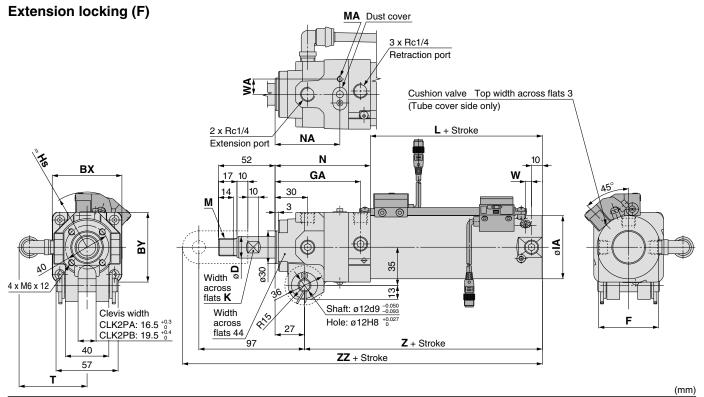
Clamp Cylinder with Lock With Magnetic Field Resistant Auto Switch Series CLK2G/CLK2P

Dimensions: CLK2P□40/50/63

Built-in Strong Magnet Type / With Magnetic Field Resistant Reed Switch (D-P7□□ type)



Note) Refer to page 14 and 15 for Accessories.



Symbol Bore size	вх	ву	D	F	GA	IA	к	L	М	MA	N	NA	т	w	WA	z	zz	Hs
40	56	54	16	44	77	47	14	65	M12 x 1.5	M4 x 7	86	59	57	5	12.5	124	236	46
50	64	64	20	55	78.5	58	17	58	M16 x 1.5	M4 x 7	87.5	59.5	60	5.5	14	118.5	230.5	51
63	74	74	20	69	82	72	17	58	M16 x 1.5	M5 x 7	91	61	67	5.5	19	122	234	57.5

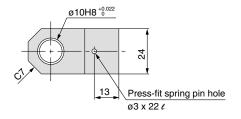


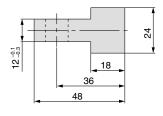


Series CLK2 Accessories

Single Knuckle Joint

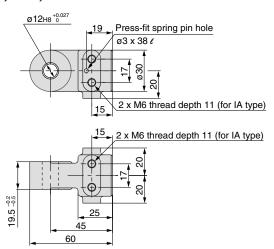
For ø32





CLK-103

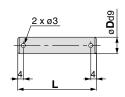
For Ø40, Ø50, Ø63



Part no.	Rod end bracket symbol	Applicable clamp cylinder				
CLK-I04	I (M6 without tap)	CLK2□A40 series				
CLK-IA04	IA (M6 with tap)	CLK2□B40 series				
CKB-I04	I (M6 without tap)	CLK2□A50 to 63 series				
CKB-IA04	IA (M6 with tap)	CLK2□B50 to 63 series				

Note) The conventional model (the CLK1 series) is equivalent to the component part no. CLK-IA04, CKB-IA04 (rod end bracket symbol IA).

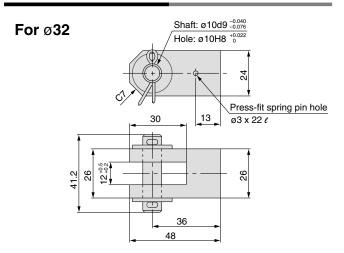
Pin (for Clevis/Double Knuckle Joint)



Part no.	D	L	Applicable clamp cylinder
CDP-2	10 -0.040	41.2	CLK2□A32 series
CK-P04	12 -0.050	57	CLK2□□40 to 63 series

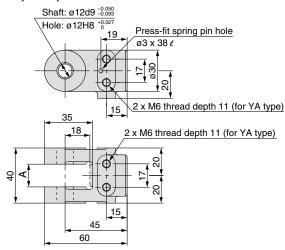
Note) Cotter pin and flat washer are provided as a standard.

Double Knuckle Joint



CLK-Y03

For Ø40, Ø50, Ø63



Part no.	Rod end bracket symbol	Α	Applicable clamp cylinder			
CLK-Y04	Y (M6 without tap)		011000110			
CLK-YA04	C-YA04 YA (M6 with tap)		CLK2□A40 series			
CKA-Y04	Y (M6 without tap)	16.5 ^{+0.3}	CLK2□A50 to 63 series			
CKA-YA04	YA (M6 with tap)		CLK2LIA50 to 63 series			
CKB-Y04 Y (M6 without tap)		19.5 ^{+0.4}	OL KO DEO +- 00			
CKB-YA04	YA (M6 with tap)	19.5 0	CLK2□B50 to 63 series			

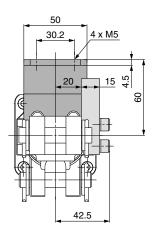
Note 1) Pin (for knuckle), cotter pin and flat washer are attached to the double knuckle joint as a standard.

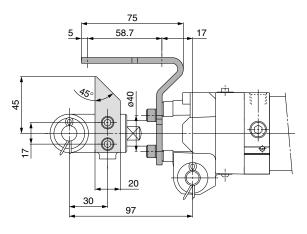
Note 2) The conventional model (the CLK1 series) is equivalent to the component part no. CLK-YA04, CKA-YA04, CKB-YA04 (rod end bracket symbol YA).



Series CLK2 Accessories

Limit Switch Mounting Base/Dog Fitting







When you attach a dog fitting, be sure to use a knuckle joint, M6 with tap (rod end bracket symbol IA or YA).

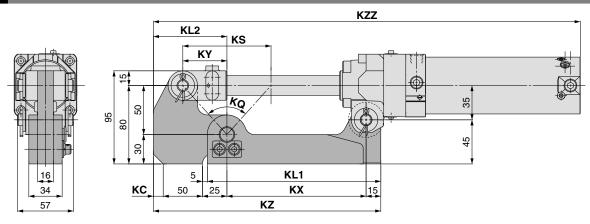
The dog fitting cannot be attached to the knuckle joint, M6 without tap (rod end bracket symbol I or Y).

Part no.	Option symbol	Name	Applicable clamp cylinder				
CK-B04	В	Limit switch mounting base	CLK2□A40 to 63 series				
CK-D04	D	Dog fitting	CLK2□B40 to 63 series				

Note 1) Limit switch mounting base and dog fitting can be repositioned by removing the hexagon socket head cap screw.

Note 2) When ordering the limit switch base and the dog bracket individually, a spring washer for the mounting bolt (hexagon socket head cap screw) will be attached as a standard.

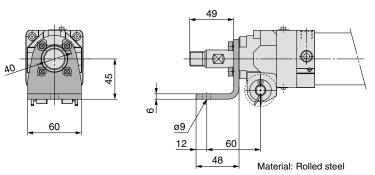
Pedestal



									k	(ZZ		
Type	KL1	KL2	кх	KZ	KY	KS	KQ	KC	Bor	Bore size		Applicable cylinder
									40	50	63	
CKA-K075	167	75	132	222	35	70	69° 59'	0	396 (406)	400.5	404	CLK2□A40-75Y, CLK2□A50-75Y, CLK2□A63-75Y
CKA-K100	177	75	142	232	45	90	83° 58'	0	431 (441)	435.5	439	CLK2□A40-100Y, CLK2□A50-100Y, CLK2□A63-100Y
CKA-K150	202	85	167	267	70	140	108° 55'	10	516 (526)	520.5	524	CLK2□A40-150Y, CLK2□A50-150Y, CLK2□A63-150Y

Note) () denotes the dimensions for CLK2PA40.

Foot



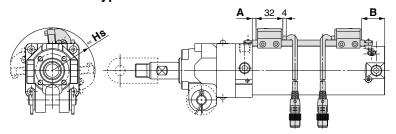
Part no.	Option symbol	Applicable clamp cylinder
CK-L04	L	CLK2□A40 to 63 series CLK2□B40 to 63 series

Note) Mounting bolts (hexagon socket head cap screws) and spring washers are attached to the foot as standard.



Auto Switch Proper Mounting Position (for Stroke End Detection) and Its Mounting Height

Rod mounting D-P4DW□□ type



Note) The above drawing is the switch rod mounting example for the D-P4DWS□ type.

D-P7 type

Note) The above drawing is the switch rod mounting example for the D-P79WSE type.

Auto Switch Mounting Position and Its Height: Rod Mounting

Unit: mm

Auto switch	Symbol	Auto switch set value and its height				
model	Syllibol	40	50	63		
	Α	8	4.5	4.5		
D-P4DW□□	В	20.5	27.5	27.5		
	Hs	45.5	51	58.5		
D-P79WSE	Α	5.5	0	0		
D-P79W3E D-P74□	В	27.5	26	26		
D-1-7-4	Hs	46	51	58		

- Note 1) The mounting position should be referred for reference only for the auto switch mounting position at the stroke end detection. Adjust the auto switch after confirming the operation to set actually.
- Note 2) A/B dimensions are the distance from the standard position (above drawing) to the end surface of the auto switch.
- Note 3) The auto switch mounting position is temporarily set at the time of shipping from our factory. Change it to the desired position in accordance to your facility.

Band mounting D-P4DW type

Note) The above drawing is the switch band mounting example for the D-P4DWS $\!\Box$ type.

Auto Switch Mounting Position and Its Height: Band Mounting / D-P4DW□□ Type

D-P4DW□□ Type Unit: mm					
Auto switch	Symbol	Auto switch set value and its			
model	Syllibol	32	40	50	63
	Α	0	8	4.5	4.5
	В	27.5	20.5	27.5	27.5
D-P4DW□□	Hs	38	43	48	55
	Ht	41.5	46	51.5	58.5
	θ	45°	45°	36°	33°

- Note 1) The mounting position should be referred for reference only for the auto switch mounting position at the stroke end detection. Adjust
- the auto switch after confirming the operation to set actually.

 Note 2) A/B dimensions are the distance from the standard position (above drawing) to the end surface of the auto switch.
- Note 3) As for the D-P4DW \(\subseteq \) type, band mounting style, the switch mounting bracket and the auto switch have to be ordered separately. For details, refer to page 7.

Operating Range

					Unit: mm	
Auto swite		Bore size				
Auto Swite	32	40	50	63		
D-P4DW□□	Rod mounting	_	4	4	4.5	
D-P4DW 🗆	Band mounting	4.5	5	5	5.5	
D-P79WSE	Dod mounting		8	9	9.5	
D-P74□	Rod mounting		0	9	9.5	

^{*} Since this is a guideline including hysteresis, not meant to be guaranteed. (Assuming approximately ±30% dispersion.)

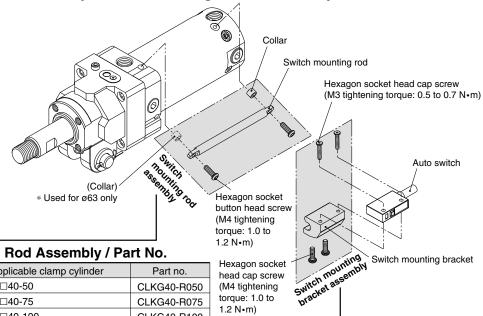
There may be the case it will vary substantially depending on an ambient environment.



Series CLK2

Auto Switch Mounting Bracket / Part No.

Switch mounting rod assembly / Switch mounting bracket assembly



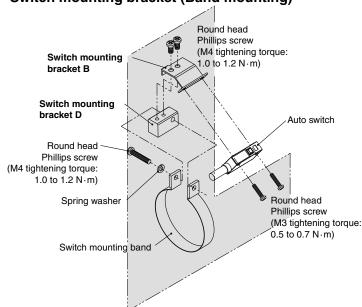
Switch Mounting Rod Assembly / Part No.

Owner mounting from Assembly / Fart No.					
Applicable series	Applicable clamp cylinder	Part no.			
	CLK2G□40-50	CLKG40-R050			
Dedicated to	CLK2G□40-75	CLKG40-R075			
CLK2G□40	CLK2G□40-100	CLKG40-R100			
series	CLK2G□40-125	CLKG40-R125			
	CLK2G□40-150	CLKG40-R150			
	CLK2P□40-50	CLKP40-R050			
Dedicated to	CLK2P□40-75	CLKP40-R075			
CLK2P□40	CLK2P□40-100	CLKP40-R100			
series	CLK2P□40-125	CLKP40-R125			
	CLK2P□40-150	CLKP40-R150			
CLK2G□50	CLK2G□50-50/CLK2P□50-50	CLKG50-R050			
series	CLK2G□50-75/CLK2P□50-75	CLKG50-R075			
CLK2P□50	CLK2G□50-100/CLK2P□50-100	CLKG50-R100			
series	CLK2G□50-125/CLK2P□50-125	CLKG50-R125			
Common	CLK2G□50-150/CLK2P□50-150	CLKG50-R150			
CLK2G□63	CLK2G□63-50/CLK2P□63-50	CKG40-R050			
series	CLK2G□63-75/CLK2P□63-75	CKG40-R075			
CLK2P□63	CLK2G□63-100/CLK2P□63-100	CKG40-R100			
series	CLK2G□63-125/CLK2P□63-125	CKG40-R125			
Common	CLK2G□63-150/CLK2P□63-150	CKG40-R150			

Switch Mounting Bracket Assembly / Part No.

Applicable	Applicable	Mounting bracket part no.			
cylinder series	auto switch	40	50	63	
CLK2G series	D-P4DWSC D-P4DWSE D-P4DWL/Z		BK1T-040		
CLK2P series	D-P79WSE D-P74L/Z		BAP1T-040		

Switch mounting bracket (Band mounting)



Switch Mounting Bracket (Band Mounting) / Part No.

Mounting bracket part no.	Applicable auto switch	Clamp cylinder with applicable lock
BA8-032		CLK2G□32
BA8-040	D-P4DWSC	CLK2G□40
BA8-050	D-P4DWSE - D-P4DWL/Z	CLK2G□50
BA8-063		CLK2G□63



Magnetic Field Resistant 2-Color Indication Solid State Switch D-P4DWSC/D-P4DWSE (€

(Electrical entry: Pre-wired connector)

- It is possible to use in an environment which generates a magnetic field disturbance
- The optimum operating position can be determined by the color of the light. (Red → Green ← Red)

(AC magnetic field).

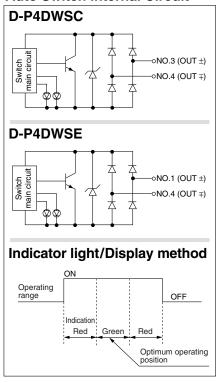


∧Caution

Precautions

For single-phase AC welding machines Not applicable for DC inverter welding machines (including rectifying type) and or condenser type welding.

Auto Switch Internal Circuit





Auto Switch Specifications



PLC: Programmable Logic Controller

Unit: mm

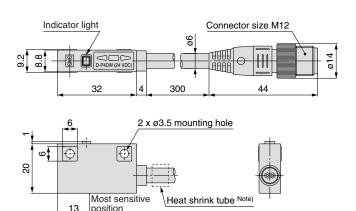
D-P4DWS□ (With indicator light)					
Auto switch model	D-P4DWSC	D-P4DWSE			
Applicable load	24 VDC r	elay, PLC			
Load voltage	24 VDC (20	to 28 VDC)			
Load current	6 to 40 mA or less				
Internal voltage drop	5 V or less				
Leakage current	1 mA or less at 24 VDC				
Operating time	40 ms	or less			
Indicator light	Operating position ········· Red LED illuminates. Optimum operating position ······· Green LED illuminates.				
Standard	Conforming to	CE Standards			

- Lead wire Oilproof heavy-duty vinyl cable, ø6, 0.5 mm², 2 cores, 300 mm
- Impact resistance Switch: 1000 m/s², Connector: 300 m/s²
- Insulation resistance 50 $\mbox{M}\Omega$ or more at 500 VDC Mega (between lead wire and case)
- Withstand voltage 1000 VAC for 1 minute (between lead wire and case)
- Ambient temperature −10 to 60°C
- Enclosure IEC529 standard IP67, JIS 0920 waterproof structure

Magnetic Field Resistance

If the current of the AC welding machine is 16000 A or lower, the switch can be used, even if the distance between the welding conductor (gun cable) and the cylinder or switch is 0 mm. Please contact SMC when the AC welding current exceeds 16000 A.

Dimensions



Note) D-P4DWSC = "SC 3-4", D-P4DWSE = "SE 1-4"



Magnetic Field Resistant 2-Color Indication Solid State Switch D-P4DWL/Z (Electrical entry: Grommet)

- It is possible to use in an environment which generates a magnetic field disturbance (AC magnetic field).
- The optimum operating position can be determined by the color of the light. (Red → Green ← Red)

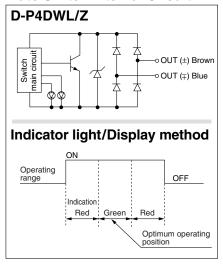


∆Caution

Precautions

For single-phase AC welding machines Not applicable for DC inverter welding machines (including rectifying type) and or condenser type welding.

Auto Switch Internal Circuit



Auto Switch Specifications



For details about certified products conforming to international standards, visit us at www.smcworld.com.

PLC: Programmable Logic Controller

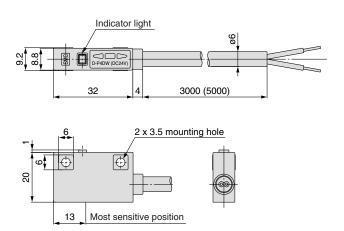
D-P4DWL/Z (With indicator light)					
Auto switch model	D-P4DWL	D-P4DWZ			
Applicable load	24 VDC r	elay, PLC			
Load voltage	24 VDC (20	to 28 VDC)			
Load current	6 to 40 mA or less				
Internal voltage drop	5 V or less				
Leakage current	1 mA or less at 24 VDC				
Operating time	40 ms	or less			
Indicator light	Operating position ········ Reconstruction Optimum operating position ·	d LED illuminates Green LED illuminates.			
Standard	Conforming to	CE Standards			

- Lead wire Oilproof heavy-duty vinyl cable, Ø6, 0.5 mm², 2 cores, D-P4DWL: 3 m, D-P4DWZ: 5 m
- Impact resistance Switch: 1000 m/s²
- Insulation resistance 50 ${\rm M}\Omega$ or more at 500 VDC Mega (between lead wire and case)
- Withstand voltage 1000 VAC for 1 minute (between lead wire and case)
- Ambient temperature −10 to 60°C
- Enclosure IEC529 standard IP67, JIS 0920 waterproof structure

Magnetic Field Resistance

If the current of the AC welding machine is 16000 A or lower, the switch can be used, even if the distance between the welding conductor (gun cable) and the cylinder or switch is 0 mm. Please contact SMC when the AC welding current exceeds 16000 A.

Dimensions Unit: mm





Magnetic Field Resistant 2-Color Indication Reed Switch

D-P79WSE (Electrical entry: Pre-wired connector)



 The optimum operating position can be determined by the color of the light.
 (Red → Green ← Red)

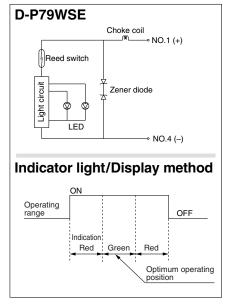


∆Caution

Precautions

Cylinder with a strong integrated magnet must be used.

Auto Switch Internal Circuit





Connector pin

Auto Switch Specifications



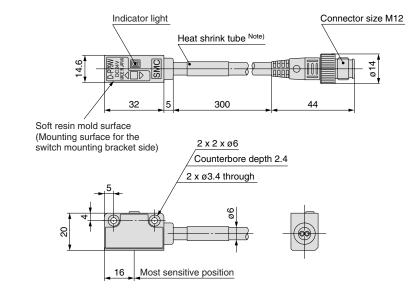
Auto switch model	D-P79WSE
Load voltage	24 VDC
Load current range	8 to 20 mA
Contact protection circuit	Yes
Internal voltage drop	6 V or less
Operating time	1.2 ms
Indicator light	Operating position Red LED illuminates. Optimum operating position Green LED illuminates.
Standard	Conforming to CE Standards

- Lead wire Oilproof, fire resistant heavy-duty vinyl cord, ø6, 0.75 mm², 2 cores (300 mm)
- Impact resistance 300 m/s²
- \bullet Insulation resistance 50 $\mbox{M}\Omega$ or more at 500 VDC Mega (between lead wire and case)
- Withstand voltage 1000 VAC for 1 minute (between lead wire and case)
- Ambient temperature −10 to 60°C
- Enclosure IEC standard IP67, waterproof (JISC0920), oilproof construction

Dimensions

Unit: mm

D-P79WSE



Note) D-P79WSE = "SE 1 4-"

∧Caution

Please be careful of the mounting direction.

The soft resin mold surface must be directed to the switch mounting bracket side.

Magnetic Field Resistant Reed Switch D-P74L/D-P74Z (Electrical entry: Grommet)

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For details about certified products conforming to international standards, visit us at www.smcworld.com.

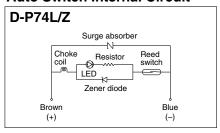


⚠Caution

Precautions

Cylinder with a strong integrated magnet must be used.

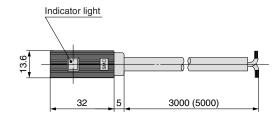
Auto Switch Internal Circuit

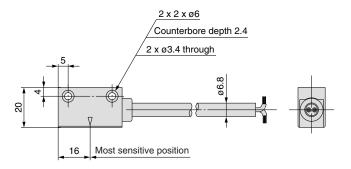


D-P74L/Z (With indicator light)		
Auto switch model	D-P74L	D-P74Z
Electrical entry	Grommet	
Application	Relay, PLC	
Load voltage	24 VDC	100 VDC
Max. load current/Load current range	5 to 40 mA	5 to 20 mA
Contact protection circuit	Yes	
Internal voltage drop (internal resistance)	2.4 V or less	
Leakage current	0	
Operating time	1.2 ms	
Indicator light	Red LED illuminates when turned ON.	
Standard	Conforming to CE Standards	

- Lead wire Oilproof, fire resistant heavy-duty vinyl cord, ø6.8, 0.75 mm², 2 cores (Brown, Blue), D-P74L: 3 m, D-P74Z: 5 m
- Impact resistance 300 m/s²
- Insulation resistance 50 $\mbox{M}\Omega$ or more at 500 VDC Mega (between lead wire and case)
- Withstand voltage 1000 VAC for 1 minute (between lead wire and case)
- Ambient temperature −10 to 60°C
- Enclosure IEC standard IP67, waterproof (JISC0920), oilproof construction
- * Indicate "L" for 3 m lead wire and "Z" for 5 m lead wire at the end of an auto switch part number.

Dimensions Unit: mm





Note: () denotes the value of D-P74Z.

