

Applicable Auto Switch/Refer to page 9-15-1 for further information on auto switches.

Electrical		light		Ŀ	oad volt	age	Au	to swit	ch mo	del	Lead w	ire le	ength	(m)*									
Туре	Special function	entry	icator	(Output)	Б	C	AC	Sw	itch moun in-line dir	ting ection	Vertical	0.5	3	5	None	Pre-wire connector	Applica	ble load					
			p	· · · /			/.0	ø20,ø25	ø32	ø40	ø20 to ø40	(NII)	(L)	(Z)	(N)								
ь	S			3-wire (NPN equivalent)		5 V	_		C76		B76 *	•	•		_	—	IC circuit	_					
swite	_	Grommet	ပ္လ			10.1	100 V		C73	-	B73*				—	_		Relay,					
ed			≻	2-wire	24 V	12 V	100 V, 200 V	(B5	54)	B54	_		۲		—	_	1	PLC					
Re				2 1110			i [12 V	- (5	C73C		B73C*		۲		•			PLC.			
	Diagnostic indication (2-color indication)	Grommet			í [_		(B59W)	B59	9W	—		۲	—	—	_]	FLC				
				3-wire (NPN)		5 V 40 V			H7A1		G79*		۲	0	—	0	IC						
-		Grommet		3-wire (PNP)		5 V, 12 V			H7A2		-		۲	0	—	0	circuit						
litch	_			Quality	7]			10.1			H7B		K79*		۲	0	—	0		1		
SN		Connector		2-wire		12 V			H7C		K79C*		۲					Polov					
tate			ζeγ	3-wire (NPN)	24 V	24 V	24 V	24 V	24 V	24 V	24 V	_		H7NW		—		۲	0	—	0	IC	PIC
s p	Diagnostic indication (2-color indication)	nostic indication (2-color indication)				۲	0	_	0	circuit													
Soli		Grommet		Quality				H7BW			_		۲	0	-	0		1					
	Water resistant (2-color indication)			2-wire		12 V			H7BA		—	—	۲	0	—	0		1					
	With diagnostic output (2-color indication)			4-wire (NPN)		5 V, 12 V			H7NF		—		۲	0	_	0	IC circuit	L					
* Lea	Lead wire length symbols: 0.5 m Nil (Example) C73C * Solid state switches marked with "O" are produced upon receipt of order.																						

(Example) H73CL 3 m L 5 m ······· Z (Example) C73CZ

None N (Example) C73CN

* For detailed specifications, please contact SMC.

• Since there are other applicable auto switches than listed, refer to page 9-4-10 for details. • For details about auto switches with pre-wire connector, refer to page 9-15-66.

A Caution When using auto switches shown inside (), stroke end detection may not be possible depending on the One-touch fitting or speed controller model. Please contact SMC in this case.

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Specificatio	ons 🧹							
Мо	del	MLGC 20	MLGC 25	MLGC 32	MLG 40			
Basic c	ylinder	CDLG1BA	CDLG1BA Bore size Stroke Lock operation Auto switch					
Bore siz	ze (mm)	20	25	32	40			
Action			Double	acting				
Fluid			A	ir 🧹				
Proof pressure			1.5	MPa				
Maximum opera	ating pressure		1.0	MPa				
Minimum opera	ting pressure	(0.2 MPa (Horizo	ntal with no load)	CL		
Ambient and flu	id temperature	-10 to 60°C						
Piston speed		50 to 500 mm/s *						
Cushion		Air cushion						
Base cylinder lu	ubrication	Non-lube						
Thread tolerand	e	JIS Class 2						
Stroke length to	olerance	+1.9 +0.2 mm						
Non-rotating accuracy	Slide bearing	±0.06°	±0.05°	±0.05°	±0.04°	MNB		
(Except deflection) of guide rods	Ball bushing bearing	±0.04°	±0.04°	±0.04°	±0.04°			
Piping	Cylinder port	M5 x 0.8 Rc ¹ / ₈						
port size	Lock port		Rc ¹ / ₈					
Lock operation	6	Spring locking (Spring and pne	Exhaust locking) ■ umatic lock	Pneumatic locking	(Pressure locking)	CLS		

* Constraints associated with the allowable kinetic energy are imposed on the speeds at which the piston can be locked.

* The maximum speed of 750 mm/s can be accommodated if the piston is to be locked in the stationary state for the purpose of drop prevention.

Fine Lock Specifications

Lock operation	Spring locking (Exhaust locking)	Spring and pneumatic locking	Pneumatic locking (Pressure locking)	RLQ
Fluid		Air	, <u>с</u> ,	MLU
Maximum operating pressure				
Unlocking pressure	0.3 MPa	a or more	0.1 MPa or more	ML1C
Lock starting pressure	0.25 MF	a or less	0.05 MPa or less	
Locking direction			D -	

Standard Stroke

Model	Bearing	Bore size	Standard stroke	Long stroke (mm)	20-
	type	((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((Bui
	Slido booring	20	75, 100, 125, 150, 200	250, 300, 350, 400	Data
	Silue bearing	25	75 100 105 150	350, 400, 450, 500	
	Ball bushing	32	75, 100, 125, 150,	350, 400, 450, 500, 600	
MLGCL	bearing	40	200, 230, 300	350, 400, 450, 500, 600, 700, 800	

* Intermediate strokes and short strokes other than the above are produced upon receipt of order.

OUT

The	oretical	Output

75

Theor	etical	Out	put					001				(N)
Bore size	Rod size	Operating	Piston area			Op	erating	pressui	re (MPa	a)		
(mm)	(mm)	direction	(mm ²)	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
20	Q	OUT	314	62.8	94.2	126	157	188	220	251	283	314
20	0	IN	264	52.8	79.2	106	132	158	185	211	238	264
25	10	OUT	491	98.2	147	196	246	295	344	393	442	491
25		IN	412	82.4	124	165	206	247	288	330	371	412
22	10	OUT	804	161	241	322	402	482	563	643	724	804
52	12	IN	691	138	207	276	346	415	484	553	622	691
40	16	OUT	1260	252	378	504	630	756	882	1010	1130	1260
40	16	IN	1060	212	318	424	530	636	742	848	954	1060

Note) Theoretical output (N) = Pressure (MPa) x Piston area (mm²)

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Mad	le to
Or	der

Made to Order Specifications (For details, refer to page 9-16-1.)

Symbol	Specifications										
-XC79	Machining tapped hole, drilled hole and pin hole additionally.										

Auto Switch Mounting Bracket Part No.

(Dand and Sciew are include									
Auto switch	Bore size (mm)								
model	20	25	32	40					
D-C7/C8	BMA2	BMA2	BMA2	BMA2					
D-H7	-020	-025	-032	-040					
D-B5/B6	BA	BA	BA	BA					
D-G5/K5	-01	-02	-32	-04					
D-B7/B8	BM1	BM1	BM1	BM1					
D-G7/K7	-01	-02	-32	-04					

<Mounting screws set made of stainless steel> The following set of mounting screws made of stainless steel is also available. Use it in accordance with the operating environment. (Please order the mounting band separately, since it is not included.) BBA3: For D-B5/B6/G5/K5

BBA4: For D-C7/C8/H7

"D-G5BAL/H7BAL" switch is set on the cylinder with the stainless steel screws above when shipped.

When only a switch is shipped independently, "BBA3" or "BBA4" screws are attached.

CLQ

MLGP

-X