



Low-profile long stroke hand Double acting

LST-HP1 Series

- Operational stroke: Short stroke: 8, 12, 16, 20mm
Middle stroke: 16, 24, 32, 40mm
Long stroke: 32, 48, 64, 80mm

Double acting



Specifications

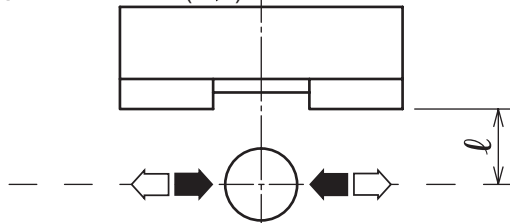
Item	LST-08			LST-12			LST-16			LST-20		
	A	B	C	A	B	C	A	B	C	A	B	C
Bore size mm	ø8 x 2			ø12 x 2			ø16 x 2			ø20 x 2		
Actuation	Double acting											
Working fluid	Compressed air											
Max. working pressure MPa	0.7											
Min. working pressure MPa	0.15			0.1								
Ambient temperature°C	-10 to 60 (no freezing)											
Port size	M3			M5								
Operating stroke mm	8	16	32	12	24	48	16	32	64	20	40	80
Repeatability mm	±0.03											
Weight kg	0.09	0.12	0.16	0.19	0.24	0.34	0.42	0.54	0.79	0.78	1.03	1.49
Lubrication	Not required											

Gripping force

- Gripping force is the thrust (one finger) in the direction of the arrow shown in the figure.

Unit: N

- Open direction (←)
- Close direction (→)



Bore size (mm)	Double acting
ø8	19
ø12	48
ø16	90
ø20	141

* Supply pressure 0.5MPa, $l=15\text{mm}$, value at the stroke center

Switch specifications

Item	2-wire proximity	3-wire proximity	2-wire proximity	3-wire proximity	
	F2S	F3S	F2H/F2V	F3H/F3V	F3PH/F3PV
Applications	Programmable Controller dedicated	Programmable For controller, relay	Programmable Controller dedicated	Programmable For controller, relay	
Output method	-	NPN output	-	NPN output	PNP output
Power supply voltage	-	10 to 28 VDC	-	10 to 28 VDC	4.5 to 28 VDC
Load voltage/ current	10 to 30 VDC 5 to 20 mA	30 VDC or less 50 mA or less	10 to 30 VDC 5 to 20 mA	30 VDC or less 50 mA or less	
Indicator lamp	Red LED (Lit when ON)		Yellow LED (Lit when ON)		
Leakage current	1 mA or less	10 μA or less	1 mA or less	10 μA or less	
Shock resistance	980m/s ²				
Weight	g1m:10 3m:29				

*1: The F-switch uses a bend-resistant lead wire as standard.

Refer to the LST-HP1 Series of "Low-profile long Stroke Hand LST-HP Series (No.CC-1529A)" for dimensions.

How to order

Without switch (built-in magnet for switch)

LST - **08** **A** **1** **N** ————— **HP1**

With switch (built-in magnet for switch)

LST - **08** **A** **1** **N** - **F2H** - **D** - **HP1**

A Bore size (mm)

B Stroke

C Port position

D High precision positioning hole

E Switch model No.

F Switch quantity

Code		Description				
A Bore size (mm)						
08	ø8					
12	ø12					
16	ø16					
20	ø20					
B Stroke						
A	Short stroke					
B	Middle stroke					
C	Long stroke					
C Port position						
1	Standard, axis direction					
2	Side piping					
D High precision positioning hole						
N	None					
A	Available					
E Switch model No.						
Lead wire Straight	Lead wire L-shaped	Contact	Voltage		Indicator	Lead wire
			AC	DC		
-	F2S*	Proximity		●	1-color LED	2-wire
-	F3S*			●		3-wire
F2H*	F2V*			●		2-wire
F3H*	F3V*			●		3-wire
F3PH*	F3PV*			●		3-wire
* Lead wire length						
Blank	1 m (standard)					
3	3 m (option)					
F Switch quantity						
R	1 on open side					
H	1 on closed side					
D	2					

How to order switch

SW - **F2H***

Switch model No.
(above Item **E**)

[Example of model No.]

LST-16B2A-F2H3-D-HP1

Model: Low-profile long stroke hand

- A** Bore size (mm) : ø16
- B** Stroke : Middle stroke
- C** Port position : Side piping
- D** High precision positioning hole : Available
- E** Switch model No. : Proximity F2H, lead wire 3 m
- F** Switch quantity : 2

SCPD3	Long service life cylinder
CMK2	
SCM	
SSD2	
MDC2	
MSD	
MSDG-L	
SMG	Environment-resistant cylinder
LCR	
LCG	
STM	
STG	
STR2	
SCPD3	Linear Slide Hand
CMK2	
SCM	
SCG	
SSD2	
SMG	
LCR	
STG	Low-profile long stroke hand
STS	
STL	
LSH	
LSHL	
LSHM	
LST	
LSTM	Wire Parallel Hand
HMC	
CKW	
ABP2	
SCPD3	
CMK2	
SCM	
SSD2	Compatible with rechargeable batteries
MSD	
MSDG-L	
SMG	
STG	
STM	
LCR	
LCG	Supports food mfg. processes
STR2	
LSH	
LSHL	
SCPD3	
CMK2	
SCM	
SCG	
SSD2	
STG	