LCR LCG STM STG STR2

LSHL



Low-profile long stroke hand with length measuring function Double acting

LSTM-HP2 Series

Operating stroke: 12, 16, 20 mm

Double acting







Specifications

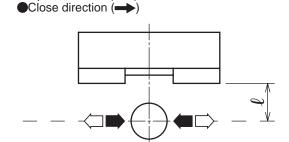
'					
Item		LSTM			
Bore size	mm	ø12 x 2	ø16 x 2	ø20 x 2	
Actuation		Double acting			
Working fluid		Compressed air			
Max. working pressure	MPa	0.7			
Min. working pressure	MPa	0.1			
Port size		M5			
Operating stroke	mm	12	16	20	
Power supply voltage		24 VDC ±10%			
Current consumption		25 mA or less			
Indicator lamp		Green LED ON when power applied			
Analog output		1 V when finger is closed - 5V*1 when open, connection load 100kΩ or more			
Analog output linearity		±0.5% F.S. or less (ambient temperature 25°C)			
Repeatability of analog output		±0.04 mm or less (No deformation or wear of the actuator / jig when ambient temperature is 25 ° C)			
Valid measured range length	mm	12	16	20	
Shock resistance (sensor/amplifier section)		294m/s ²			
Vibration resistance (sensor / amplifier section)		10 to 55Hz double amplitude 1.5mm, 2 hours in each X, Y, Z direction			
Degree of protection (sensor/amplifier section)		IEC Standard IP65			
Ambient temperature, humidity		10 to 60°C, 85% RH or less (no freezing)			
Weight	kg	0.26	0.50	0.90	
Lubrication		Not required			

^{*1:} There is output fluctuation of 1 mV / °C.

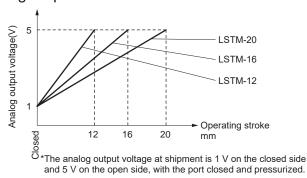
Gripping force

■Open direction (<=)</p>

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



Analog output characteristics



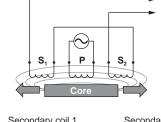
Unit: N

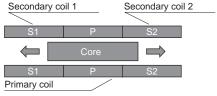
Bore size (mm)	Double acting	
ø12	48	
ø16	90	
ø20	141	

^{*}Supply pressure: 0.5 MPa, *l*=15mm value at stroke center

LVDT displacement sensor operation principle

When exciting the primary coil (P), induced voltage is generated in the two secondary coils (S1/S2) by electromagnetic induction. When the Hand is driven, the core position changes and a difference in induced voltage occurs between S1 and S2. This difference is used to output the position of the core as electric signals.





LSTM-HP2 Series

How to order

SCPD3

Long

service life cylinder

Environment-resistant cylinder Linear Slide Hand

SMG

LCR STG STS

STL

LSH

LSHL

LSHM

LST

LSTM

CKW

ABP2 SCPD3

CMK2
SCM
SSD2
MSD
MSDG-L
SMG
STG
STM
LCR
LCG
STR2
LSH
LSHL
SCPD3

HMC Hand

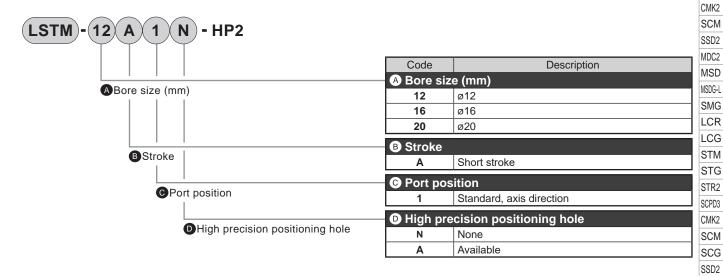
Chuck

Air Booster

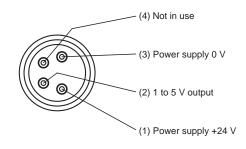
Compatible with rechargeable batteries

SCPD3 Supports food mfg.





Plug contact array diagram



[Example of model No.]

LSTM-16A1A-HP2

Model: Low-profile long stroke hand with length

measuring function

ABore size (mm) : ø16

BStroke : Short stroke

©Port position : Standard, axis direction

DHigh precision positioning hole: Available

Refer to the LSTM-HP2 Series of "Low-profile long stroke hand LST-HP Series (No.CC-1529A)" for dimensions.

SSD2 STG