

Thin type long stroke parallel hand Double acting  
(Standard, long stroke 1)

# HLC Series

- Operational stroke length: Standard 40, 50, 60, 70  
Long stroke 1 80, 100, 120, 140



## Specifications

Descriptions	HLC							
	16CS		20CS		25CS		30CS	
Size	Standard	L1	Standard	L1	Standard	L1	Standard	L1
Cylinder bore size mm	$\phi 16 \times 2$		$\phi 20 \times 2$		$\phi 25 \times 2$		$\phi 30 \times 2$	
Working fluid	Compressed air							
Max. working pressure MPa	0.7							
Min. working pressure MPa	0.2							
Ambient temperature °C	5 to 60							
Port size	M5							
Operational stroke length mm	40	80	50	100	60	120	70	140
Capacity of reciprocating cm <sup>3</sup>	16.1	32.2	31.4	62.8	58.9	117.8	99	198
Repeatability mm	$\pm 0.03$							
Product weight kg	0.71	0.85	1.03	1.4	1.62	2.23	2.74	3.69
Lubrication	Not required (when lubricating, use turbine oil Class 1 ISO VG32)							

## Switch specifications

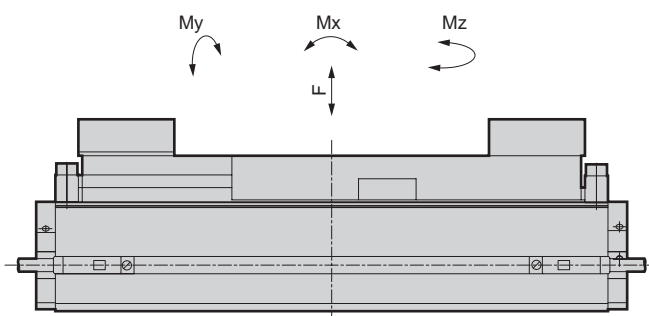
Descriptions	Proximity 2 wire	Proximity 3 wire
	T2H/T2V	T3H/T3V
Applications	Programmable controller	Programmable controller, relay
Output method	-	NPN output
Power voltage	-	10 to 28 VDC
Load voltage/current	10 to 30 VDC, 5 to 20 mA (Note 1)	30 VDC, 100mA or less
Light	LED (ON lighting)	
Maximum shock resistance	980m/s <sup>2</sup>	
Leakage current	1mA or less	10 $\mu$ A or less

Note 1: Max. load current above: 20 mA at 25°C.

The current will be lower than 20mA if ambient temperature around switch is higher than 25°C. (5 to 10mA with 60°C)

## Allowable load and allowable moment of HLC

Allowable load and allowable moment	F	Mx	Mz	My
Model no.	N	N·m	N·m	N·m
HLC-16CS	95	33.8	33.8	3.43
HLC-16CS-L1	95	49.5	49.5	3.43
HLC-20CS	95	50.0	50.0	3.43
HLC-20CS-L1	95	68.1	68.1	3.43
HLC-25CS	157	78.9	78.9	6.86
HLC-25CS-L1	157	120.0	120.0	6.86
HLC-30CS	281	152.0	152.0	13.72
HLC-30CS-L1	281	224.0	224.0	13.72



### How to order

**HLC** - **20CS** - **L1** - **T2H** - **R**

**A** Size

**B** Option

**C** Switch model no.  
\* indicates lead wire length.

**D** Switch quantity

Symbol	Descriptions			
<b>A Size</b>				
	<b>16CS</b>			
	<b>20CS</b>			
	<b>25CS</b>			
	<b>30CS</b>			
<b>B Option</b>				
<b>Blank</b>	Standard			
<b>L1</b>	Long stroke 1			
<b>C Switch model no.</b>				
Axial lead wire	Radial lead wire	Contact	Indicator	Lead wire
<b>T2H*</b>	<b>T2V*</b>	Proximity	1 color indicator type	2-wire
<b>T3H*</b>	<b>T3V*</b>			3-wire
<b>*Lead wire length</b>				
<b>Blank</b>	1m (standard)			
<b>3</b>	3m (option)			
<b>5</b>	5m (option)			
<b>D Switch quantity</b>				
<b>R</b>	One on open side			
<b>H</b>	One on closed side			
<b>D</b>	Two			

<Example of model number>

**HLC-20CS-L1-T2H-R**

Model: Thin long stroke parallel hand

- A** Size : 20CS
- B** Option : Long stroke 1
- C** Switch model no. : Proximity T2H switch, lead wire 1m
- D** Switch quantity : One on open side

### How to order switch

**SW** - **T2H**

Switch model no.  
(Item above **C**)

RRC
GRC
RV3*
NHS
HR
LN
FH100
HAP
BSA2
BHA/BHG
LHA
LHAG
HKP
HLA/HLB
HLAG/HLBG
HEP
HCP
HMF
HMFB
HFP
<b>HLC</b>
HGP
FH500
HBL
HDL
HMD
HJL
BHE
CKG
CK
CKA
CKS
CKF
CKJ
CKL2
CKL2 *-HC
CKH2
CKLB2
NCK/ SCK/FCK
FJ
FK
Ending

Thin long stroke parallel hand  
Hand