



Thin parallel hand (bush/bearing guide) Double acting

HLA/HLB Series

- Operational stroke length: HLA 15, 20, 25mm
HLB 13, 18, 23mm



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

Specifications

| Descriptions | HLA | | | HLB | | |
|---|---|-------|-------|-------|-------|-------|
| | 12CS | 15CS | 20CS | 12CS | 15CS | 20CS |
| Size | 12CS | 15CS | 20CS | 12CS | 15CS | 20CS |
| Cylinder bore size mm | φ12 | φ15 | φ20 | φ12 | φ15 | φ20 |
| Actuation | Double acting | | | | | |
| Working fluid | Compressed air | | | | | |
| Max. working pressure MPa | 0.7 | | | | | |
| Min. working pressure MPa | 0.3 | | | 0.1 | | |
| Ambient temperature °C | 5 to 60 | | | | | |
| Port size | M5 | | | | | |
| Operational stroke length mm | 15 | 20 | 25 | 13 | 18 | 23 |
| Capacity of reciprocating cm ³ | 1.69 | 3.53 | 7.85 | 1.47 | 3.18 | 7.22 |
| Repeatability mm | ±0.03 | | | ±0.01 | | |
| Product weight kg | 0.152 | 0.276 | 0.504 | 0.214 | 0.402 | 0.678 |
| Lubrication | Not required (when lubricating, use turbine oil Class 1 ISO VG32) | | | | | |

Switch specifications and variations

| Descriptions | Proximity 2 wire | Proximity 3 wire |
|--------------------------|-----------------------------------|--------------------------------|
| | K2H/K2V | K3H/K3V |
| 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 or less, 50mA or less |
| Light | LED (ON lighting) | |
| Leakage current | 1mA or less | 10 μA or less |
| Maximum shock resistance | 980m/s ² | |

| Descriptions | Reed 2 wire | |
|--------------------------|---|---|
| | K0H/K0V | K5H/K5V |
| Applications | Programmable controller, relay | Programmable controller, relay, IC circuit (w/o light), serial connection |
| Power voltage | - | |
| Load voltage/current | 12/24 VDC, 5 to 50 mA 110 VAC, 7 to 20 mA | 5/12/24 VDC, 50mA or less 110 VAC, 20mA or less |
| Light | LED (ON lighting) | None |
| Leakage current | 0mA | |
| Maximum shock resistance | 294m/s ² | |

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)

How to order

Without switch

HLA - 12CS

With switch

HLA - 12CS - K2H - R

A Model no.

B Size

C Switch model no.
Note 1

D Switch quantity

| Symbol | Descriptions | | | |
|---------------------------|--------------------|-----------|-------------------------|-----------|
| A Model no. | | | | |
| HLA | Bush guide | | | |
| HLB | Bearing guide | | | |
| B Size | | | | |
| 12CS | | | | |
| 15CS | | | | |
| 20CS | | | | |
| C Switch model no. | | | | |
| Axial lead wire | Radial lead wire | Contact | Indicator | Lead wire |
| K0H* | K0V* | Reed | 1 color indicator type | 2-wire |
| K5H* | K5V* | | Without indicator light | |
| K2H* | K2V* | Proximity | 1 color indicator type | 2-wire |
| K3H* | K3V* | | | 3-wire |
| *Lead wire length | | | | |
| Blank | 1m (standard) | | | |
| 3 | 3m (option) | | | |
| 5 | 5m (option) | | | |
| D Switch quantity | | | | |
| R | One on open side | | | |
| H | One on closed side | | | |
| D | Two | | | |

⚠ Note on model no. selection

Note 1: Switches other than (C) switch model no. are available.
(Custom order) Refer to Ending 1 for details.

<Example of model number>

HLB-12CS-K2H-R

Model: Thin parallel hand

- A** Model no. : Bearing guide HLB
- B** Size : 12CS
- C** Switch model no. : Proximity K2H switch, lead wire 1m
- D** Switch quantity : One on open side

How to order switch

SW - K2H

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 |
| HLC |
| HGP |
| FH500 |
| HLB |
| HDL |
| HMD |
| HJL |
| BHE |
| CKG |
| CK |
| CKA |
| CKS |
| CKF |
| CKJ |
| CKL2 |
| CKL2*-HC |
| CKH2 |
| CKLB2 |
| NCK/SCK/FCK |
| FJ |
| FK |
| Ending |

Thin parallel hand
Hand