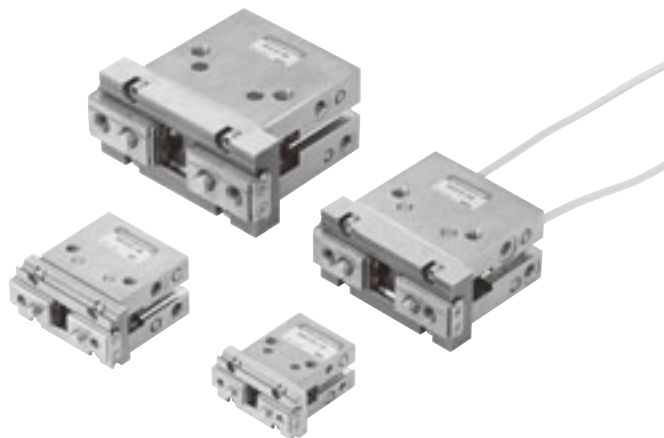
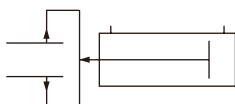


NHC1 SERIES



Symbols

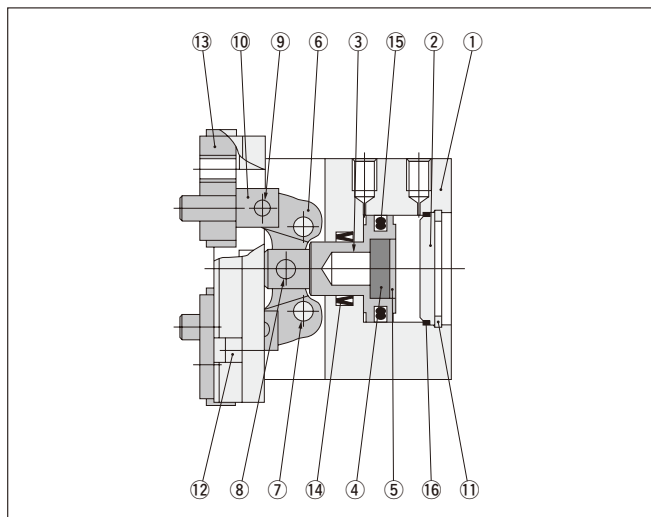


Specifications

Basic model		NHC1D-10	NHC1D-16	NHC1D-20	NHC1D-25
Item					
Cylinder bore size	mm [in.]	10 [0.394]	16 [0.630]	20 [0.787]	25 [0.984]
Operation type		Double acting type			
Media		Air			
Operating pressure range	MPa [psi.]	0.2~0.7 [29~102]	0.12~0.7 [17~102]	0.1~0.7 [15~102]	
Proof pressure	MPa [psi.]	1.05 [152]			
Operating temperature range	°C [°F]	0~60 [32~140]			
Maximum operating frequency	cycle/min	180			
Lubrication		Not required			
Effective gripping force (F) ^{Note 1}	Closed side	11 [2.5]	35 [7.9]	49 [11.0]	86 [19.3]
	Open side	17 [3.8]	46 [10.3]	65 [14.6]	111 [25.0]
Lever open/closed stroke	mm [in.]	4 [0.157]	6 [0.236]	10 [0.394]	14 [0.551]
Repeatability	mm [in.]	±0.01 [±0.0004]			
Port size		M3×0.5	M5×0.8		
Mass	g [oz.]	45 [1.59]	96 [3.39]	205 [7.23]	366 [12.91]

Note: 1. Values are obtained when gripping point length is 30mm [1.18in.] under operating pressure 0.5 MPa [73psi.]. For details of the effective gripping force, see the graphs on p.1384.

Inner Construction



Major Parts and Materials

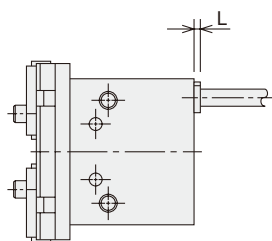
No.	Parts	Materials
①	Body	Aluminum alloy (nickel plated)
②	Head cover	Aluminum alloy
③	Piston rod	Stainless steel
④	Magnet	Plastic magnet
⑤	Magnet holder	Aluminum alloy
⑥	Action lever	Steel
⑦	Fulcrum pin	Steel
⑧	Press fit pin	Steel
⑨	Press fit pin	Steel
⑩	Knuckle	Stainless steel
⑪	Internal snap ring	Steel
⑫	Hexagon socket head bolt	Steel
⑬	Linear bearing	Stainless steel
⑭	Seal	Synthetic rubber (NBR)
⑮	Seal	Synthetic rubber (NBR)
⑯	O-ring	Synthetic rubber (NBR)

Order Codes

NHC1	D	-		-			
Air hand NHC1 Series	Bore size		Number of sensor switches		Lead wire length		
	10 : 10mm [0.394in.]		1: With 1 sensor switch		A : 1000mm [39in.]		
	16 : 16mm [0.630in.]		2: With 2 sensor switches		B : 3000mm [118in.]		
	20 : 20mm [0.787in.]						
	25 : 25mm [0.984in.]						
	Operation type		Sensor switch				
	D : Double acting type		Blank : No sensor switch				
			ZE135: 2-lead wire solid state type with indicator lamp Horizontal lead wire DC10~28V				
		ZE155: 3-lead wire solid state type with indicator lamp Horizontal lead wire DC4.5~28V					
		ZE235: 2-lead wire solid state type with indicator lamp Vertical lead wire DC10~28V					
		ZE255: 3-lead wire solid state type with indicator lamp Vertical lead wire DC4.5~28V					
		● For details of sensor switches, see p.1544.					

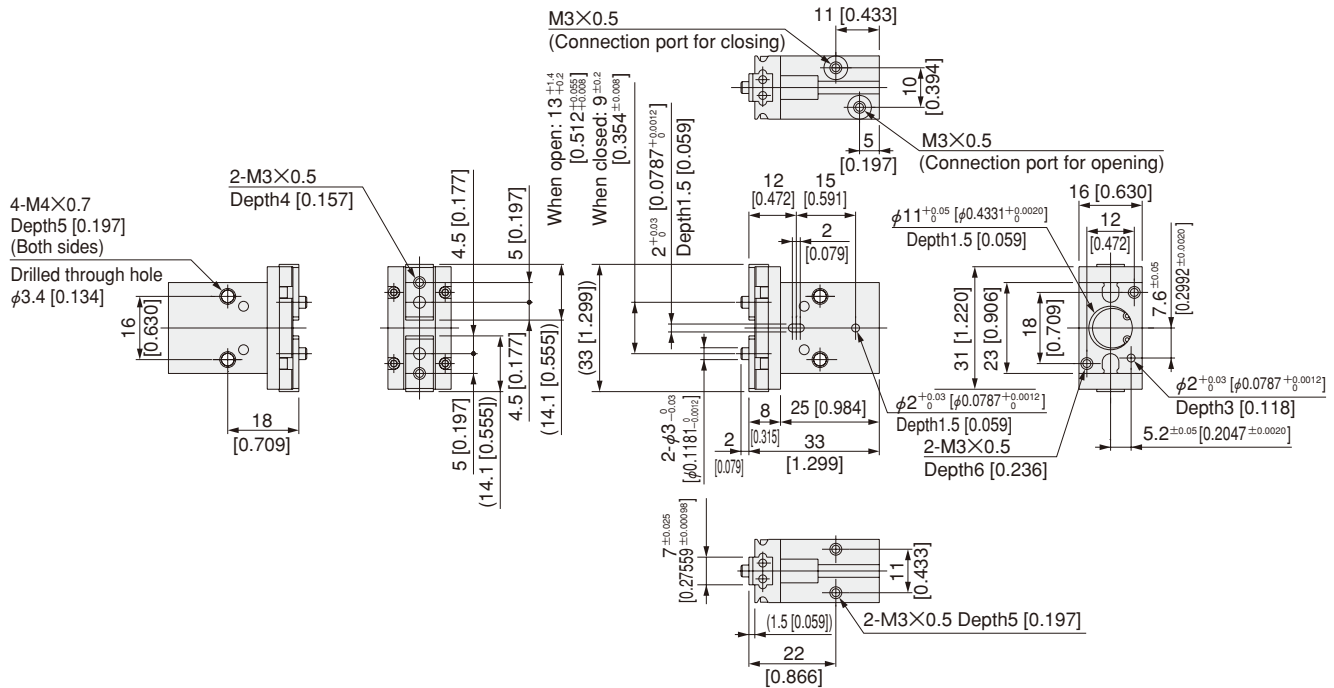
Length of Sensor Switch Allowed to Protrude

The maximum length that the sensor switch protrudes from the body end surface (when the levers are completely closed) is as shown in the table below. Use these values for mounting the sensor.



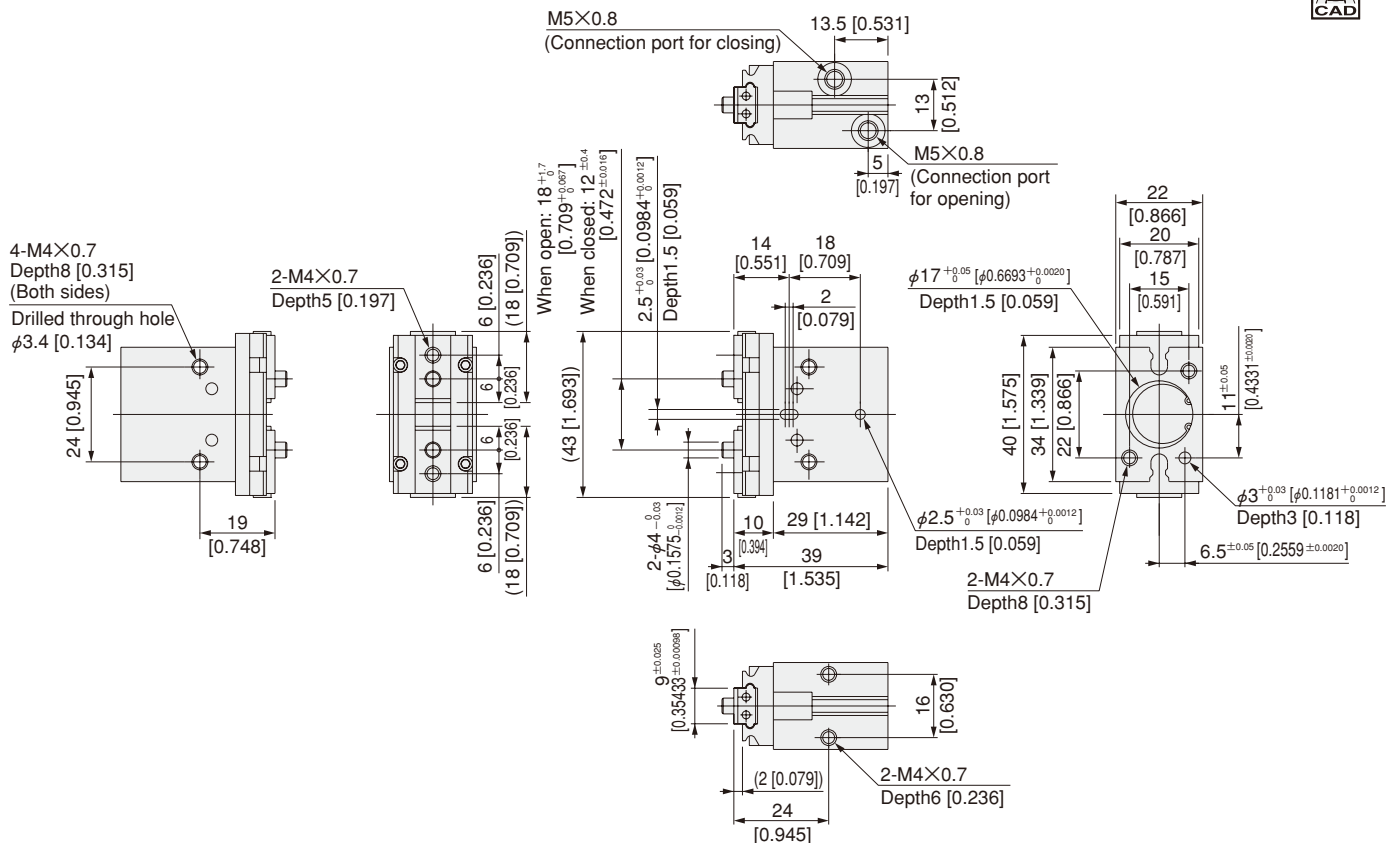
Model	Length of sensor switch allowed to protrude L
NHC1D-10	3 [0.12]
NHC1D-16	4 [0.16]
NHC1D-20	4 [0.16]
NHC1D-25	5 [0.20]

NHC1D-10



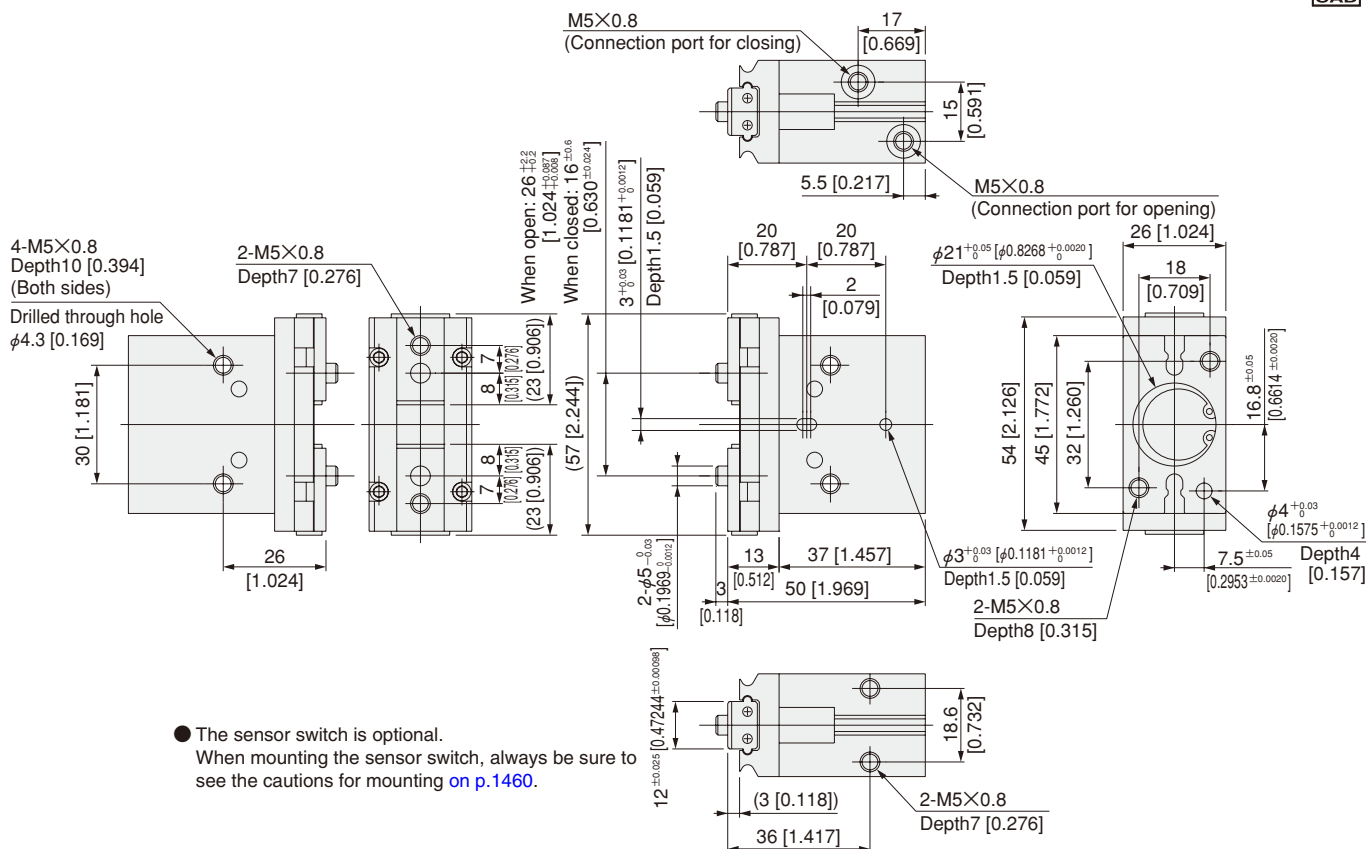
● The sensor switch is optional.
When mounting the sensor switch, always be sure to see the cautions for mounting on p.1460.

NHC1D-16



● The sensor switch is optional.
When mounting the sensor switch, always be sure to see the cautions for mounting on p.1460.

NHC1D-20



NHC1D-25

