

1

How to Order?

Series No	Bore	X	Stroke	— Magnet No	— Thread type
EN	10		25	S : With Magnet	Blank: G
	16		50		P : PT
	20		75		T : NPT
	...		...		
	32				

Order Example:

EN series double shaft cylinder, Bore 32mm, stroke 30mm, with magnet, PT thread. ERP code is: EN32X30-S-P

Product Features

- * Double shaft provide good anti-bend performance and guarantee long life cycle and correct direction
- * Suitable slot is designed for manetic sensor and fixing
- * Embedding mounting and no need other brackets, room saving
- * Easy to assemble and easy to maintain

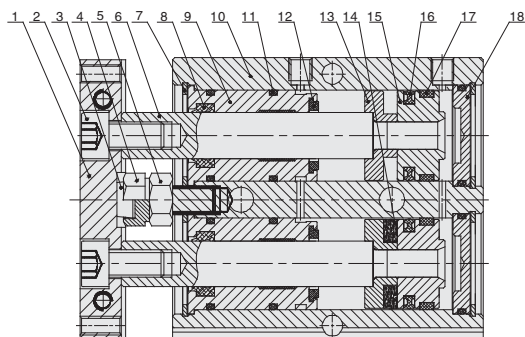
Specifications

Bore(mm)	10	16	20	25	32
Acting type	Double acting				
Working medium	Clean air (40 μm filtration)				
Working pressure (MPa)	0.1~1.0				
Guaranteed pressure (MPa)	1.5				
Working temperature (°C)	-20~80(Dry air)				
Speed range (mm/s)	30~500				
Adjusting stroke (mm)	-10~0				
Cushion type	Absorb shocks gasket				
No-return precision	±0.4°		±0.3°		
Port Size	M5x0.8				G 1/8 ①

① NPT, PT port size is optional.

Bore (mm)	Standard stroke (mm)	Max. stroke (mm)
10	10 20 30 40 50 60 70 80 90 100	100
16~32	10 20 30 40 50 60 70 80 90 100 125 150 175 200	200

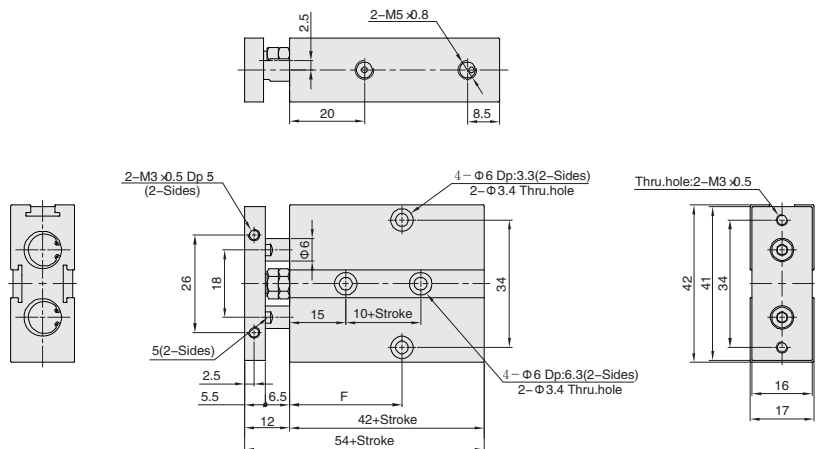
Internal structure



NO.	Part name	Material
1	Fixing plate	Aluminum alloy
2	Nut	Carbon steel
3	Bumper	POM
4	Adjustable nut	Carbon steel
5	Screw	Carbon steel
6	Piston rod	S45C hard chrome carbon steel
7	C clip	Spring steel
8	Wiper seal	NBR
9	Head cover	Aluminum alloy
10	Body	Aluminum alloy
11	O-ring	NBR
12	Anti-bump cushion	TPU
13	Magnet holder	Aluminum alloy
14	Magnet	Plastic
15	Piston	Aluminum alloy
16	Piston seal	NBR
17	Wear ring	PTFE
18	Rear cover	Aluminum alloy

Main Dimensions (mm)

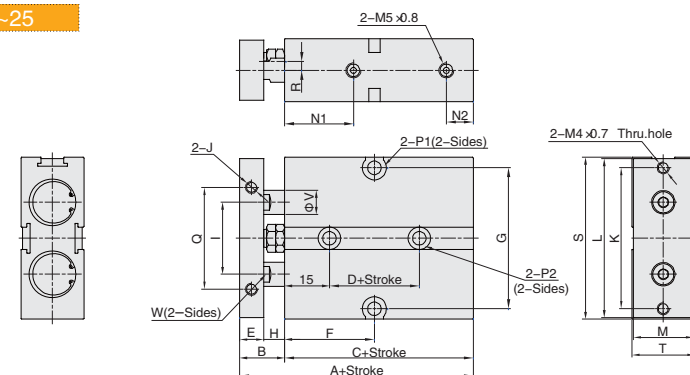
EN Φ10



Bore\Sign	10	20	30	40	50	60	70	80	90	100
F	30	30	35	40	45	50	55	60	65	70

Main Dimensions (mm)

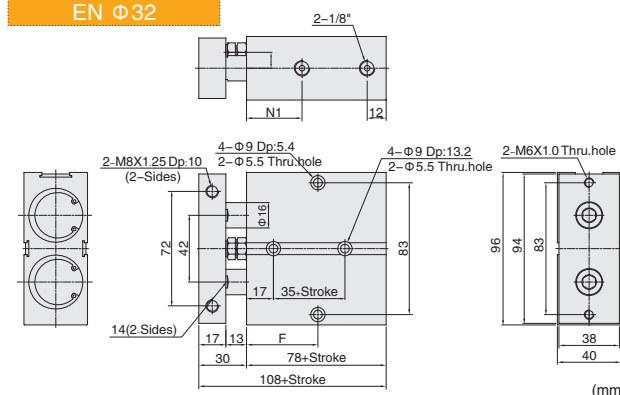
EN Φ16~25



Bore\Sign	A	B	C	D	E	F														G	H	I	K
						10	20	30	40	50	60	70	80	90	100	125	150	175	200				
16	68	15	53	20	8	30	35	40	45	50	55	60	65	70	75	87.5	100	112.5	125	47	7	24	47
20	78	20	58	20	10	35	35	40	45	50	55	60	65	70	75	87.5	100	112.5	125	55	10	28	55
25	81	19	62	30	10	40	40	45	50	55	60	65	70	75	80	92.5	105	117.5	130	66	9	34	66

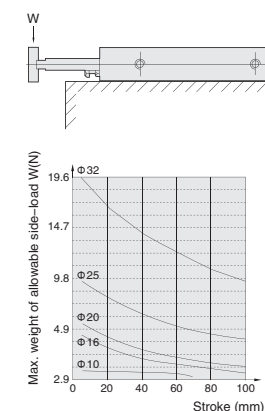
Bore\Sign	J	L	M	N1	N2	P1		P2		Q	R	S	T	V	W
16	M4×0.7 Dp 5	53	20	23	9	Φ8 Dp:4.5 ; Thru.hole:Φ4.5		Φ7.5 Dp:7.3 ; Thru.hole:Φ4.5		34	3	54	21	8	6
20	M4×0.7 Dp 5	61	24	28	9	Φ8 Dp:4.5 ; Thru.hole:Φ4.5		Φ7.5 Dp:7.5 ; Thru.hole:Φ4.5		44	3.5	62	25	10	8
25	M4×0.7 Dp 6	72	29	33	9	Φ8 Dp:4.5 ; Thru.hole:Φ4.5		Φ7.5 Dp:7.5 ; Thru.hole:Φ4.5		56	6	73	30	12	10

EN Φ32



Bore\Sign	10	20	30	40	50	60	70	80	90	100	125	150	175	200
N1	35						40							
F	45	50	55	60	65	70	75	80	85	90	102.5	115	127.5	140

Max. weight of allowable side-load





How to Order?

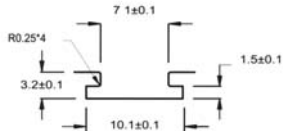
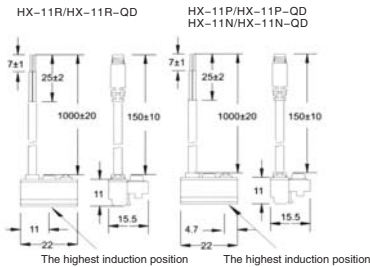
HX	-	11	-	R	-	H	-	2M	-	QD8
Product code		Series No.		Special model		No.:Standard sensitive		Wire length		Connection
				No.:Standard sensitive		B: NC type		No: Standard 1M		QD8: QD8 Male fitting
				H: High sensitive type		L: Low sensitive type		1.5M: 1.5M		
				X: No indicator type				2M: 2M		
								5M: 5M		

Switch type
R: Two wire reed switch
N: NPT type
P: PNP type

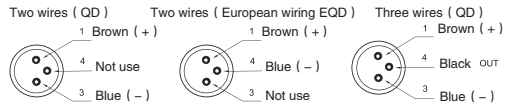
- Note: 1. Testing with standard magnet: $\Phi 15.5 \times \Phi 8 \times 5$ (Plastic magnet) ;
2. Sine wave/X, Y, Z 3 axis direction/ each axial direction three times/ each time 11ms;
3. complex amplitude 1.5mm/10Hz-55Hz sweep frequency, last one minute/ each time X, Y, Z axis direction for one hour;
4. 1-No/2-output short circuit protection/3=Power reverse connection protection/4=Surge absorption protection

Dimensions

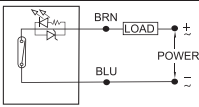
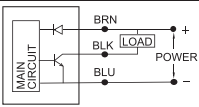
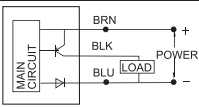
Groove dimension



QD fitting wiring



Specification

Type	HX-11R	HX-11N	HX-11P
Connect Diagram			
Parameter	2-Wire Type	3-Wire Type	
Wiring method	SPST Normally Open	Solid State Output, Normally Open	
Switching logic	Reed switch	NPN type (Input)	PNP type (Output)
Sensor type	5 - 240V DC/AC	5 - 30V DC	
Operating voltage	100 mA max.	200 mA max.	
Max. switching current	10 W max.	6 W max.	
Contact rating	None	20mA @ 24V DC max	
Current consumption	3.5V max.	0.5V max @ 200mA	
Voltage drop	None	0.01mA max.	
Leakage current	Green LED	Red LED	Green LED
Indicator	200Hz	1000Hz	
Max. exchange frequency		-10 - 70℃	
Temperature range	30G	50G	
Shock		9G	
Vibration		IEC 529 IP67 (NEMA 6)	
Enclosure classification	None	Power reverse connection protection	Surge absorption protection
Protection circuit		3.3Φ, 3C, Black color, oil resistance PVC	
Cable	3.3Φ, 2C, Gray color, oil resistance PVC		