

How to Order?

Series No	Type No	Bore	X	Stroke	Adjustable stroke	Magnet No	Piston Rod thread type	Thread type
SD	Blank: Basic type D: Double shaft type J: Double shaft and adjustable stroke type SA: Single acting spring extend SB: Single acting spring return T: Multi position type W: Double shaft and Multi position type	12 16 20 25 ...	25 50 75 ...	10 20 30 40 50 75 100	Blank: no magnet S: with magnet	Blank: Female thread M: Male thread N: no thread	Blank: G P: PT T: NPT	

Order Example:
SD Series single acting spring extend cylinder, 40mm bore, 30mm stroke, with magnet, female thread on piston rod, G thread
ERP code is: SDSA40X30-S

Specifications

Bore size(mm)	12	16	20	25	32	40	50	63	80	100
Acting type	Double acting / Single acting									
Working medium	Clean Air (40 μ filtration)									
Working pressure (MPa)	0.1-1.0(Double acting)/0.2-1.0 (Single acting)									
Guaranteed pressure(MPa)	1.5									
Working temperature (°C)	-20-80(Dry air)									
Speed range (mm/s)	30-500									
Cushion type	Fixed cushion									
Port Size	M5x0.8			G1/8			G1/4		G3/8	

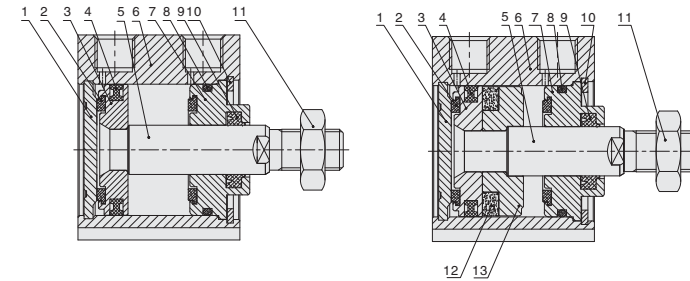
● NPT, PT port size is optional.

Stroke

	Bore (mm)	Standard stroke (mm)	Max. stroke (mm)
	Double Acting	12/16	5 10 15 20 25 30 35 40 45 50
20		5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90	150
25		5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 100 110 120	150
Single Acting	32-100	5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 100 110 120	200
	12-63	5 10 15 20 25 30	30

Note: The dimensions of non-std stroke cylinder has the same dimensions as the next longer stroke std. stroke cylinder.
e.g. 27mm stroke cylinder has the same dimensions of 30 std. stroke cylinder.

Internal structure



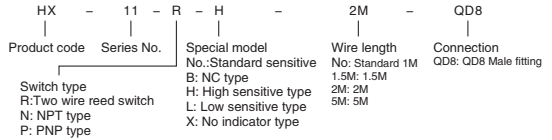
No	Part name
1	Rear cover
2	Anti-bump cushion
3	Piston
4	Piston seal
5	Piston rod
6	Barrel
7	Head cover
8	O-ring
9	Piston rod seal
10	C type retainer ring
11	Nut
12	Magnet
13	Magnet base

Main Parts Material

Part name	Material
Head cover	Aluminum alloy
Rear cover	Aluminum alloy
Piston	Aluminum alloy
Piston rod	S45C hard chrome carbon steel
Barrel	Stainless Steel
Anti-bump cushion	NBR
O-ring	NBR
Piston seal	NBR
Self lubrication bearing	Composite material
Magnet (optional)	FbFeb
C-ring	Steel
Nut	Carbon steel
Muffler	Cu



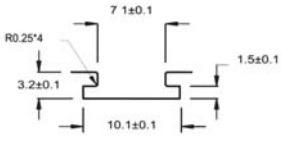
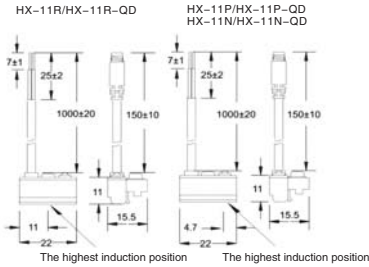
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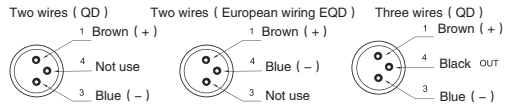
- Note: 1. Testing with standard magnet: $\Phi 15.5 \times \Phi 8 \times 5$ (Plastic magnet) ;
 2. Sine wave/X, Y, Z3 axial direction/ each axial direction three times/ each time 11ms;
 3. complex amplitude 1.5mm/10Hz-55Hz sweep frequency, last one minute/ each time X, Y, Z axial direction for one hour;
 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		
Wiring method	2-Wire Type	3-Wire Type	
Switching logic	SPST Normally Open	Solid State Output, Normally Open	
Sensor type	Reed switch	NPN type (Input)	PNP type (Output)
Operating voltage	5 - 240V DC/AC	5 - 30V DC	
Max. switching current	100 mA max.	200 mA max.	
Contact rating	10 W max.	6 W max.	
Current consumption	None	20mA @ 24V DC max	
Voltage drop	3.5V max.	0.5V max @ 200mA	
Leakage current	None	0.01mA max.	
Indicator	Green LED	Red LED	Green LED
Max. exchange frequency	200Hz	1000Hz	
Temperature range		-10 - 70°C	
Shock	30G		50G
Vibration		9G	
Enclosure classification		IEC 529 IP67 (NEMA 6)	
Protection circuit	None	Power reverse connection protection	Surge absorption protection
Cable	3.3Φ、2C, Gray color, oil resistance PVC	3.3Φ、3C, Black color, oil resistance PVC	