

## HX-13 Magnet Switch

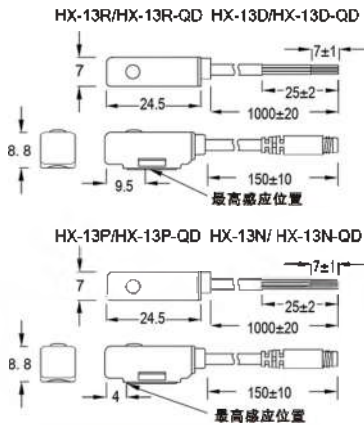


### How to Order?

<b>HX</b>	<b>-</b>	<b>13</b>	<b>D</b>	<b>-</b>	<b>2M</b>	<b>-</b>	<b>A</b>	<b>-</b>	<b>20</b>																					
Product code		Series NO.	Switch Type D: Two wire without contact switch N: NPN type P: PNP type R: Two wire read switch		Wirelength 1M:1M 2M:2M 5M:5M 10M:10M ..... QDB: QDB Male connector QD12: QD12 Male connector		Bore material Blank: No binding belt A: Aluminum alloy barrel (with binding belt) S: Stainless steel barrel (with binding belt)		Bore code																					
								<table border="1"> <thead> <tr> <th>Bore material</th> <th>Bore code</th> </tr> </thead> <tbody> <tr> <td rowspan="4">Aluminum alloy barrel</td> <td>14: Bore16mm</td> </tr> <tr> <td>20: Bore20mm</td> </tr> <tr> <td>25: Bore25mm</td> </tr> <tr> <td>32: Bore32mm</td> </tr> <tr> <td rowspan="4">Stainless steel barrel</td> <td>40: Bore40mm</td> </tr> <tr> <td>06: Bore06mm</td> </tr> <tr> <td>08: Bore08mm</td> </tr> <tr> <td>10: Bore10mm</td> </tr> <tr> <td rowspan="4"></td> <td>12: Bore12mm</td> </tr> <tr> <td>14: Bore16mm</td> </tr> <tr> <td>20: Bore20mm</td> </tr> <tr> <td>25: Bore25mm</td> </tr> <tr> <td></td> <td>32: Bore32mm</td> </tr> <tr> <td></td> <td>40: Bore40mm</td> </tr> </tbody> </table>		Bore material	Bore code	Aluminum alloy barrel	14: Bore16mm	20: Bore20mm	25: Bore25mm	32: Bore32mm	Stainless steel barrel	40: Bore40mm	06: Bore06mm	08: Bore08mm	10: Bore10mm		12: Bore12mm	14: Bore16mm	20: Bore20mm	25: Bore25mm		32: Bore32mm		40: Bore40mm
Bore material	Bore code																													
Aluminum alloy barrel	14: Bore16mm																													
	20: Bore20mm																													
	25: Bore25mm																													
	32: Bore32mm																													
Stainless steel barrel	40: Bore40mm																													
	06: Bore06mm																													
	08: Bore08mm																													
	10: Bore10mm																													
	12: Bore12mm																													
	14: Bore16mm																													
	20: Bore20mm																													
	25: Bore25mm																													
	32: Bore32mm																													
	40: Bore40mm																													

Note: The standard wire length of the quick connector is 0.15m. Other wire lengths cannot be ordered

### Dimension

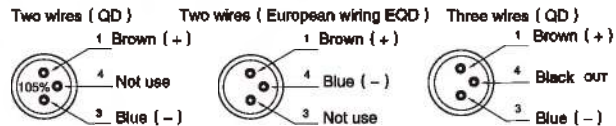


### Installation

Detailed mounting method refer to page 1.127-1.129

Suitable for cylinder:  
RAL/RA/IA/SJ/  
SM/EG/NEG/NCM

### M8/M12 male wiring diagram



### Specifications

Type	HX-13D	HX-13N	HX-13P	HX-13R
Connect Diagram				
Parameter				
Wiring method	2-Wire Type	3-Wire Type		2-Wire Type
Switching logic		Electronic no contact type N.O.		SPST Normally Open
Sensor type	None contact type	NPN type ( Input )	PNP type ( Output )	Read switch
Operating voltage	10-28V DC	5-30V DC		5-240V DC/AC
Max. switching current	50mA max	200mA max.		100mA max.
Contact rating	1.4 W max	6W max.		10W max.
Current consumption	40 μA max @ 24V	8mA max @ 24V (Switch Active)		None
Voltage drop	2.8 V max.	1 V max. @ 200mA DC		2.5 V max.
Leakage current	90 μA max @ 28V	0.01mA max.		None
Indicator		Red LED		
Max. exchange frequency		1000Hz		200Hz
Temperature range		-10 - 70°C		
Shock		50G		30G
Vibration		9G		
Enclosure classification		IEC 529 IP67 (NEMA 6)		
Protection circuit	2, 4	3, 4		1
Cable	3.2Φ, 2C, Black color, oil resistance PVC	3.2Φ, 3C, Black color, oil resistance PVC		3.2Φ, 2C, Black color, oil resistance PVC
Switch sensitive		45-750G		50G