

PNEUMATIC AIR GRIPPERS SENSOR SWITCH

Specification



Item/Type	KDS1-H, KDS1-HL	KDS1-HN, KDS1-HLN	KDS1-HP, KDS1-HLP
Switch logic	Transistor without contact, normally open type		
Switch type	Two lines	NPN	PNP
Operating voltage (V)	10-28V DC	5-30V DC	
Max. switching current (mA)	50	200	
Switching rating (W)	Max. 1.4	Max. 6	
Current consumption	12 (40) uA max. @ 24V	15mA max. @ 24V	
Voltage drop	2.65V max. @ 50mA DC	0.5V max. @ 200mA DC	
Cable	Ø 2.8, 2C black oil resistant PVC	Ø 3.3, 3C black oil resistant PVC	
Indicator	Red LED		
Leakage current	20 (90) uA max. @ 28V	0.01mA max.	
Sensitivity (gauss)	25-700	60-75	
Max. frequency (Hz)	1000		
Shock (m/s ²)	500		
Vibration (m/s ²)	90		
Temperature range (°C)	*-10°C to +70°C		
Enclosure classification	IP67 (NEMA6)		
Protection circuit	Power reverse polarity, surge suppression		

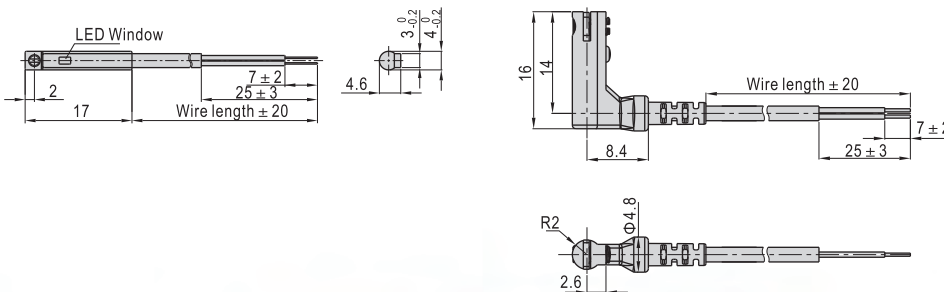
Ordering Code

K D S 1 — H — N — 0 2 0

Number of sensor switch	Specification	Model	Connecting way*															
DS1 : Sensor switch	<table border="1"> <thead> <tr> <th>Specification</th> <th>Product Series</th> </tr> </thead> <tbody> <tr> <td>H : H type</td> <td>HLH, HRQ, HFZ6 (16-40), HFY6</td> </tr> <tr> <td>HL : HL type</td> <td>HFR10-25, HLQ/HLS</td> </tr> </tbody> </table>	Specification	Product Series	H : H type	HLH, HRQ, HFZ6 (16-40), HFY6	HL : HL type	HFR10-25, HLQ/HLS	<table border="1"> <tbody> <tr> <td>Blank : two-line normally open</td> </tr> <tr> <td>N : three-line NPN with no contact (current flows in) normally open</td> </tr> <tr> <td>P : three-line PNP with no contact (current flows out) normally open</td> </tr> </tbody> </table>	Blank : two-line normally open	N : three-line NPN with no contact (current flows in) normally open	P : three-line PNP with no contact (current flows out) normally open	<table border="1"> <tbody> <tr> <td>C08 : M8 quick joint, length of wire is 150mm</td> </tr> <tr> <td>C12 : M12 quick joint, length of wire is 150mm</td> </tr> <tr> <td>020 : Length of wire is 2m</td> </tr> <tr> <td>030 : Length of wire is 3m</td> </tr> <tr> <td>050 : Length of wire is 5m</td> </tr> <tr> <td>101 : Length of wire is 10m</td> </tr> </tbody> </table>	C08 : M8 quick joint, length of wire is 150mm	C12 : M12 quick joint, length of wire is 150mm	020 : Length of wire is 2m	030 : Length of wire is 3m	050 : Length of wire is 5m	101 : Length of wire is 10m
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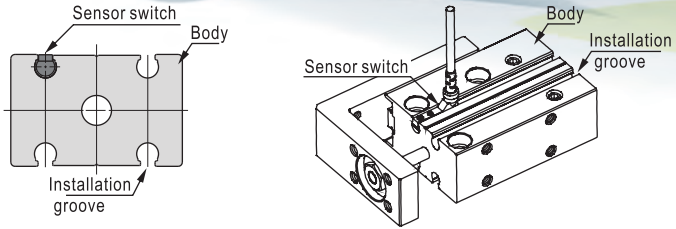
*The quick joint attached at the end of wire is a three-needle male joint with linear-rotary screw thread type. The female joint plug has to be ordered separately.

Dimensions



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Mounting



No additional accessories are necessary for the KDS1-H (N,P) and KDS1-HL (N,P) sensor switches. They can be directly fixed along the groove of the cylinder, which is convenient and fast.

To adjust the clamping screw on sensor switch, slide the sensor switch into the installation slot, adjust it to the proper position then tighten the clamping screw to fix it.