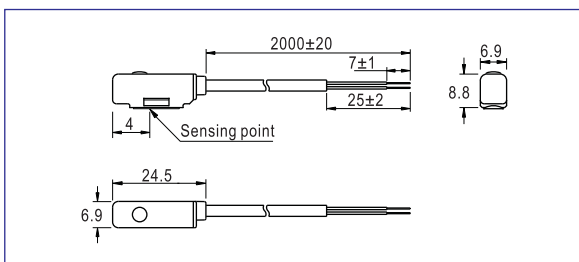


# Sensor switch

## DS1-M Series



### Dimensions



### Specification

Item/Type	DS1-M	DS1-MN	DS1-MP
Switch logic	Transistor without contact, Normally opened type		
Switch type	Two lines type	NPN type	PNP type
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	Φ 3.3,2C Black oil resistant PVC	Φ 3.3,3C Black oil resistant PVC	
Indicator	Red LED		
Leakage current	20(90)uA Max. @28V	0.01mA Max.	
Sensitivity (Gauss)	S06~S10	25~700	45~55
	S12~S16	25~700	55~65
	S20~S63	25~700	65~75
	A20~A40	25~700	65~75
Max. Frequency(Hz)	1000		
Shock(m/s <sup>2</sup> )	500		
Vibration(m/s <sup>2</sup> )	90		
Temperature range(°C)	-10~70		
Enclosure classification	IP67(NEMA6)		
Protection circuit	Power reverse polarity, surge suppression		

### Ordering code

DS1 M N 020 S 06			
<b>Number of sensor switch</b> DS1: Sensor switch		<b>Bore size</b> Cylinder barrel material Bore size Aluminum alloy 20: Φ20mm 25: Φ25mm 32: Φ32mm 40: Φ40mm Stainless steel 06: Φ6mm 08: Φ8mm 10: Φ10mm 12: Φ12mm 16: Φ16mm 20: Φ20mm 25: Φ25mm 32: Φ32mm 40: Φ40mm 50: Φ50mm 63: Φ63mm	
<b>Specification of sensor switch</b> Specification Product Series M: M type PB, MA, MAL, MI, MF		<b>Model of sensor switch</b> Blank: two-line /normally opened N: three-line NPN with no contact (current flows in)/ normally opened P: three-line PNP with no contact (current flows out)/ normally opened	
<b>Connecting way</b> 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 100: length of wire is 10m		<b>Cylinder Barrel material</b> S: Stainless steel A: Aluminum alloy	

① Note: The quick joint that is attached at the end of wire is three-needle-male joint-linear-rotary screw thread type. The female joint plug has to be ordered additionally. Please refer to P420for the specific data.

### Mounting

Installation example	Installation method
	<p>No additional accessories are necessary for the sensor switch of DS1-M, DS1-MN, DS1-MP series. It can be directly fixed onto the cylinder, which is convenient and fast.</p> <p>1. Strap band round the cylinder barrel. Snap the clamping screw into button orifice and adjust it to the proper position. Properly tighten the clamping screw to fix.</p>



Sensor switch