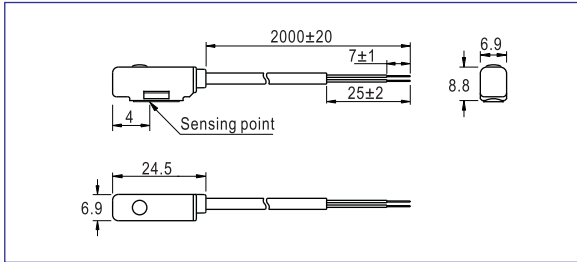


# Sensor switch

## 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**

- Number of sensor switch**  
DS1: Sensor switch
- Specification of sensor switch**

Specification	Product Series
M: M type	PB, MA, MAL, MI, MF
- Model of sensor switch**
  - 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
- Connecting way**
  - 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
- Bore size**

Cylinder barrel material	Bore size
Aluminum alloy	20: Φ 20mm
	25: Φ 25mm
	32: Φ 32mm
	40: Φ 40mm
	06: Φ 6mm
	08: Φ 8mm
Stainless steel	10: Φ 10mm
	12: Φ 12mm
	16: Φ 16mm
	20: Φ 20mm
	25: Φ 25mm
	32: Φ 32mm
40: Φ 40mm	
50: Φ 50mm	
63: Φ 63mm	
- Cylinder Barrel material**
  - 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