

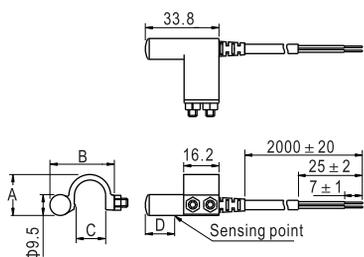
Sensor switch



DS1-B1~B8 Series



Dimensions



Type\Item	A	B	C	D
DS1-B1□	16.2	27.6	11	15.5
DS1-B2□	18.2	29.7	14	15.7
DS1-B3□	21.9	31.7	16.6	15.5
DS1-B4□	25.8	34.7	18	15.5
DS1-B5□	31.7	37.5	19	13
DS1-B6□	39.4	44.5	26	13
DS1-B7□	46.4	44.5	26	13
DS1-B8□	25	38.6	15	15.5

Specification

Item\Type	DS1-B□	DS1-B□N	DS1-B□P
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	Φ4.0,2C Black oil resistant PVC	Φ4.0,3C 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)	-10~70		
Enclosure classification	IP67(NEMA6)		
Protection circuit	Power reverse polarity, surge suppression, output short circuit		

Ordering code

DS1 B1 N 020

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

Specification	Product Series
B1: B1 type	Use for SI32(40), JSI32(40), SGC125
B2: B2 type	Use for SI50(63), JSI50(63)
B3: B3 type	Use for SI80, JSI80
B4: B4 type	Use for SI100, JSI100
B5: B5 type	Use for SI125, JSI125, SGC250
B6: B6 type	Use for SI160
B7: B7 type	Use for SI200
B8: B8 type	Use for SGC160(200)
- 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
- 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

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 P442 for the specific data.

Mounting

Installation example	Installation method
	<p>No additional accessories are necessary for the sensor switch of DS1-B (N, P) series. It can be directly fixed onto the cylinder, which is convenient and fast.</p> <p>1. Loosen the clamping screw, snap the sensor switch on the outer surface of the cylinder, and adjust it to the proper position. Tighten the clamping screw and then tighten the anti-loose screw cap to fix.</p>

