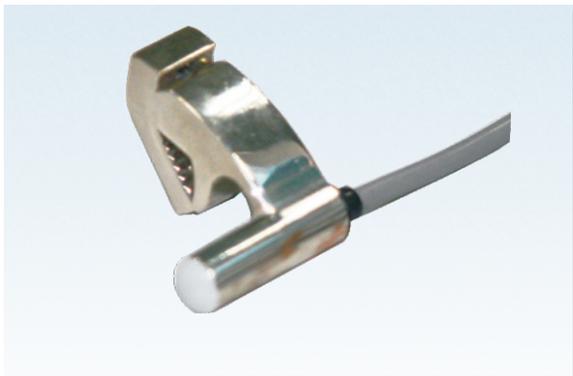
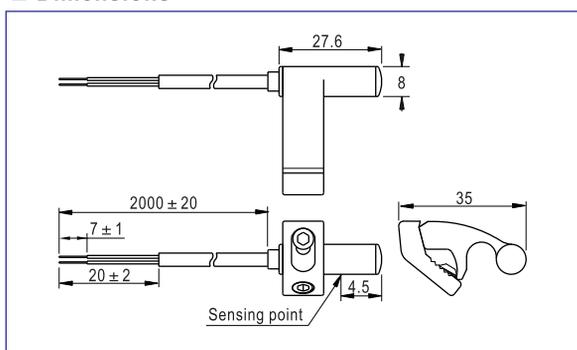


# Sensor switch

## DS1-A Series



### Dimensions



### Specification

Item\Type	DS1-A	DS1-AN	DS1-AP
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 3.3,3C 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)	25~700	60~75	
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 A N 020**

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

Specification	Product Series
A: A type	Use for SC series
- Connecting way** ①
 

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-A (N, P) series. It can be directly fixed onto the cylinder, which is convenient and fast.</p> <ol style="list-style-type: none"> <li>Loosen the connecting screw and clamping screw and adjust the open angle of the collet.</li> <li>Push the button of sensor switch to the bar and adjust it to the proper position. Finally properly tighten the clamping screw to fix.</li> </ol>

