

**Hall Sensor**





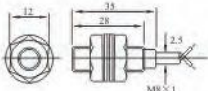
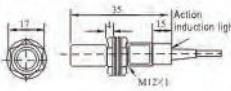
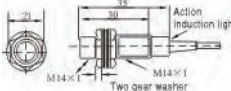
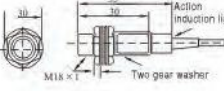
**Brief introduction**

SM series Hall sensor is a kind of magnet-sensitive sensor consisting of voltage regulator, Hall voltage generator, differential amplifier, Schmidt trigger and the output pole of collector open circuit. Its input is the magnetic flux density. The output is a digital voltage signal.

**Features**

- Wide mains voltage range
- High frequency
- Long service life, compact volume, and convenient mounting
- Directly connect to transistor and logic circuit port like, TTL.MOS

**Model and parameters**

Outward appearance Code	SM8	SM12	SM14	SM18	
Outward appearance illustration					
Overall dimensions					
Detection distance	10mm				
Mains voltage	5~24VDC				
Detectable object	Permanent magnet				
Output low level voltage	200mV				
Output high level voltage	0.1uA				
Mains current	8mA				
ON-OFF frequency	320KHz				
Working point magnetic density	32mT				
Shell material	Metal				
Ambient temperature	-25°C~70°C				
Protection structure	IEC standard IP67				
Model available	NPN NO	SM8-31010NA	SM12-31010NA	SM14-31010NA	SM18-31010NA
	PNP NO	SM8-31010PA	SM12-31010PA	SM14-31010PA	SM18-31010PA
	NPN NC		SM12-31010NB	SM14-31010NB	SM18-31010NB
	PNP NC		SM12-31010PB	SM14-31010PB	SM18-31010PB