

HALL SENSOR





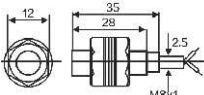
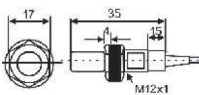
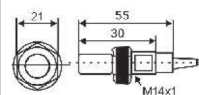
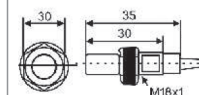
Brief Introduction

SM series Hall sensor is a kind of magnetic-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 installation
- ✦ Directly connect to transistor and logic circuit ports like, TTL, MOS

Model and parameters

Outward Appearance code		SM8	SM12	SM14	SM18
Outward appearance illustration					
Overall dimensions					
Detection distance		10mm	10mm	10mm	10mm
Mains voltage		5~24VDC	5~24VDC	5~24VDC	5~24VDC
Detectable object		Permanent magnet	Permanent magnet	Permanent magnet	Permanent magnet
Output low level voltage		200mV	200mV	200mV	200mV
Output high level current		0.1uA	0.1uA	0.1uA	0.1uA
Mains current		8mA	8mA	8mA	8mA
ON-OFF frequency		320KHz			
Working point magnetic density		22mT			
Shell material		Metal			
Ambient temperature		-25°C~70°C			
Protection structure		IEC IP67 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