

## HALL SENSOR



### Brief description

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

### Specifications

Outward appearance code	SM8	SM12	SM14	SM18
Appearance				
Dimension				
Detection distance	10mm	10mm	10mm	10mm
Working voltage	4.5~24VDC	4.5~24VDC	4.5~24VDC	4.5~24VDC
Detectable object	Permanent magnet	Permanent magnet	Permanent magnet	Permanent magnet
Output low level voltage	200mV	200mV	200mV	200mV
Output high level voltage	0.1uA	0.1uA	0.1uA	0.1uA
Working current	8mA	8mA	8mA	8mA
ON-OFF frequency	320KHz			
Working point magnetic density	22mT			
Shell material	Metal			
Ambient temperature	-25℃~70℃			
Protection standard	IP67			
Item NO.	NPN NO	SM8-3010NA	SM12-31010NA	SM14-31010NA
	PNP NO	SM8-3010PA	SM12-31010PA	SM14-31010PA
	NPN NC		SM12-31010NB	SM14-31010NB
	NPN NO+NC		SM12-31010NC	
	PNP NC		SM12-31010PB	SM14-31010PB
				SM18-3010NA
				SM18-31010PA
				SM18-31010NB
				SM18-31010PB

### WELL CONTACTS CO

# 56, Pushpak Cascade, Swathi Road, Shanthinagar, Bengaluru -560 027.

Tel-080 22226675, 22206675, 41169654 FAX-080 22226675

Email: wcblore\_2007@yahoo.com, wellcontacts@yahoo.com