

# HALL SENSOR





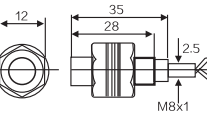
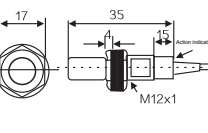
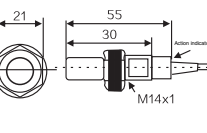
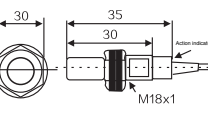
## Brief Introduction

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 installation
- 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	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		standard Ip67			
Model available	NPN NO	CZ SM8-31010NA	CZ SM12-31010NA	CZ SM14-31010NA	CZ SM18-31010NA
	PNP NO	CZ SM8-31010PA	CZ SM12-31010PA	CZ SM14-31010PA	CZ SM18-31010PA
	NPN NC	CZ SM8-31010NB	CZ SM12-31010NB	CZ SM14-31010NB	CZ SM18-31010NB
	PNP NC	CZ SM8-31010PB	CZ SM12-31010PB	CZ SM14-31010PB	CZ SM18-31010PB