

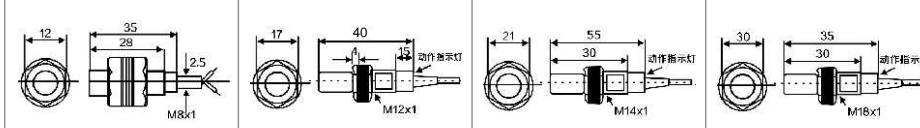
简介 Brief Introduction

- SM系列霍尔传感器是由电压调整器，霍尔电压发生器，差分放大器，施密特触发器和集电极开路的输出级组成的磁敏传感器，其输入为磁感应强度、输出是一个数字电压讯号。
- SM series Hall sensor is a kind of magnct-sensitve scnsor 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 adigital voltage signal.

特点 Features

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|------------------------|---------------------------------------------------------------------|
| 电源电压范围宽 | Wide mains voltage range |
| 频率高 | High frequency |
| 寿命长，体积小，安装方便 | Long service life, compact volume, and convenient installation |
| 能直接和晶体管及TTL.MOS等逻辑电路接口 | Directly connect to transistor and logic circuit pore like, TTL.MOS |

型号及参数 Model and parameters

外形编号Outward Appearance code	SM8	SM12	SM14	SM18	
外形图例 Outward appearance illustration					
外形尺寸 Overall dimensions					
检测距离Detection distance	10mm	10mm	10mm	10mm	
电源电压Mains voltage	5~24VDC	5~24VDC	5~24VDC	5~24VDC	
可检测物体Detectable object	永磁体Permanent magnet	永磁体Permanent magnet	永磁体Permanent magnet	永磁体Permanent magnet	
输出低电平电压Output low level voltage	200mV	200mV	200mV	200mV	
输出高电平电流Output high level current	0.1uA	0.1uA	0.1uA	0.1uA	
电源电流Mains current	8mA	8mA	8mA	8mA	
开关频率ON-OFF frequency	320KHz				
工作点磁强度 Working point magnetic density	22mT				
外壳材料Shell materia	金属Metal				
环境温度Ambient temperature	-25°C-70°C				
防护等级Protection structure	IEC标准 IP67 standard IP67				
电源电压 Mains voltage	Output Form	Model available	Model available	Model available	
5~24VDC	NPN NO	SM8-3010NA	SM12-3010NA	SM14-3010NA	SM18-3010NA
	PNP NO	SM8-3010PA	SM12-3010PA	SM14-3010PA	SM18-3010PA
	NPN NC		SM12-3010NB	SM14-3010NB	SM18-3010NB
	PNP NC		SM12-3010PB	SM14-3010PB	SM18-3010PB
90~250VAC	NO		SM12-2010A	SM14-2010A	SM18-2010A
	NC		SM12-2010B	SM14-2010B	SM18-2010B