

磁感式接近开关

工作原理：磁感式接近开关响应于一个永久的磁场，作用距离大于电感式接近开关，响应的曲线与永久磁场的方向有关，当目标(永久磁铁或外部磁场)接近时，使传感器振荡线圈获得最好的磁芯和较高的磁导率，它使传感器的振荡电流发生变化，然后内部的放大器将计算这一电流变化值，并把它转换成定义好的输出信号振荡信号通过，处理器放大并转换成开关信号，起而起到检测作用(图1)。

磁感式接近开关与电感式接近开关相比较之缺点：

优点： 一磁感式接近开关能安装在非磁性金属中。

一磁感式接近开关并排安装时没有任何要求。

一磁感式接近开关顶部（传感面）可以由非磁性金属制成。

一磁感式接近开关可以通过非磁性金属检测。

缺点： 一磁感式接近开关动作距离受检测体（永久磁铁）强弱最影响。

一检测体（永久磁铁）的接近方向会影响动作距离的大小

（径向接近是轴向接近时动作距离的一半）

一径向接近时有可能出现二个工作点(图2)

一检测体（永久磁铁）固定是不允许用铁氧体或螺丝钉，只能用非铁质材料。

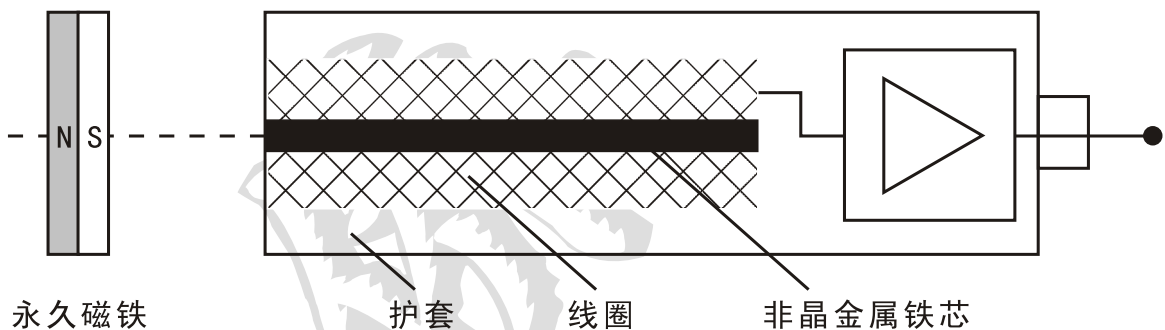


图1

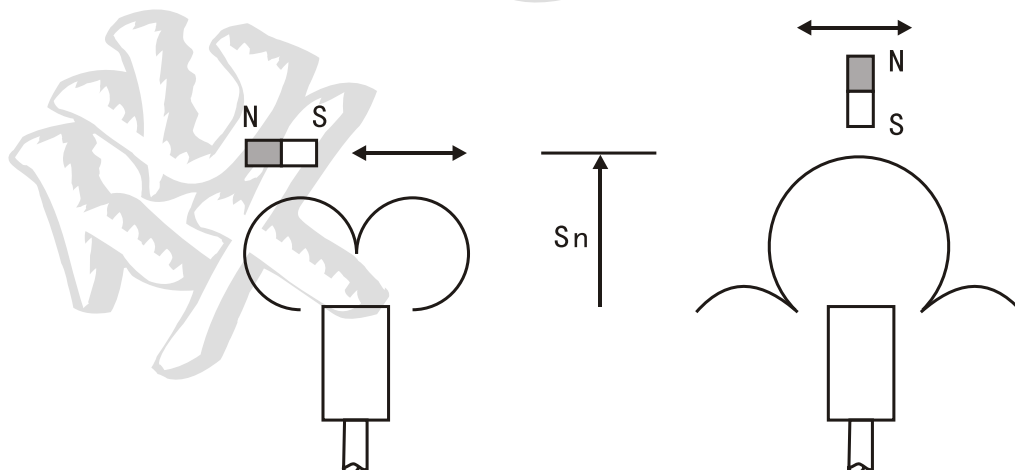
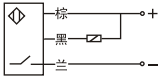
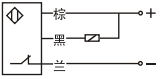
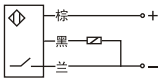
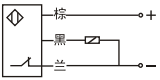
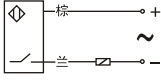
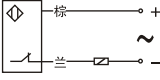
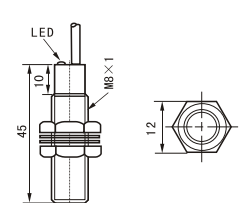
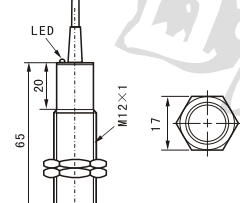
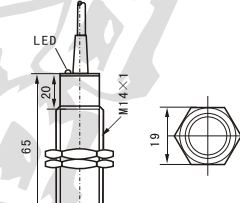


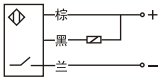
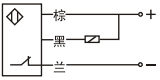
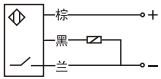
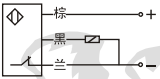
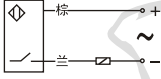
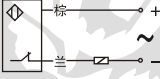
图2

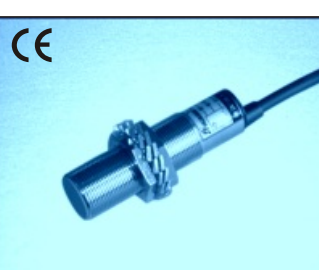
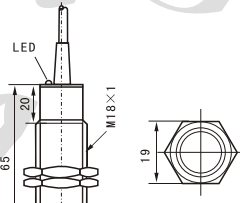
外形编号			
外形及尺寸			
电气接线图:			
     			
检测体			
具 备 型 号	直流 10- 30V	NPN 三线制	常 开 常 闭
		PNP 三线制	常 开 常 闭
技 术 参 数	交直流两线 20-250V	常 开 常 闭	
		响应频率 输出电流 环境温度 外壳材料	

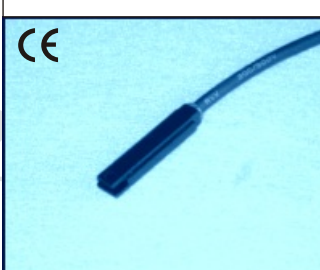
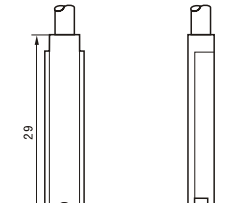
A01M
 
永久磁铁
SJA01M-3002NK
SJA01M-3002NH
SJA01M-3002PK
SJA01M-3002PH
SJA01M-4002GK
SJA01M-4002GH
10Hz
50mA
-25℃...+70℃
黄铜镀铬

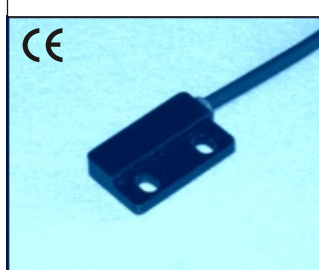
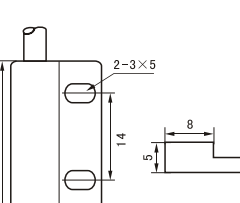
A11M
 
永久磁铁
SJA11M-3002NK
SJA11M-3002NH
SJA11M-3002PK
SJA11M-3002PH
SJA11M-4002GK
SJA11M-4002GH
10Hz
50mA
-25℃...+70℃
黄铜镀铬

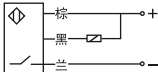
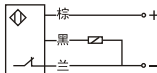
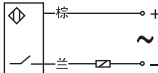
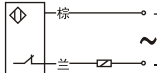
A21M
 
永久磁铁
SJA21M-3003NK
SJA21M-3003NH
SJA21M-3003PK
SJA21M-3003PH
SJA21M-4003GK
SJA21M-4003GH
10Hz
50mA
-25℃...+70℃
黄铜镀铬

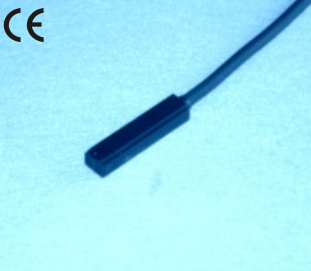
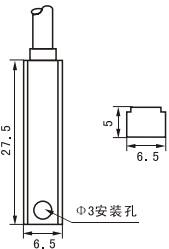
外形编号			
外形及尺寸			
电气接线图:			
     			
检测体			
具 备 型 号	直流 10- 30V	NPN 三线制	常 开 常 闭
		PNP 三线制	常 开 常 闭
技 术 参 数	交直流两线 20-250V	常 开 常 闭	
		响应频率 输出电流 环境温度 外壳材料	

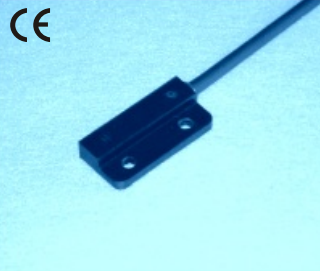
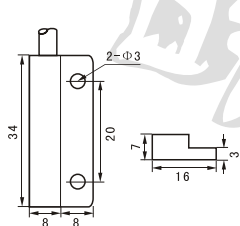
A41M
 
永久磁铁
SJA41M-3005NK
SJA41M-3005NH
SJA41M-3005PK
SJA41M-3005PH
SJA41M-4005GK
SJA41M-4005GH
10Hz
50mA
-25℃...+70℃
黄铜镀铬

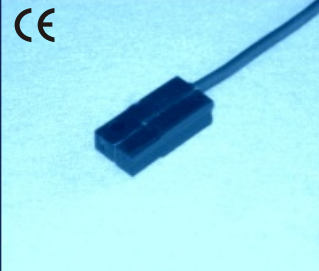
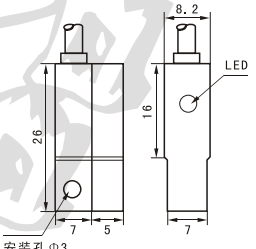
D4
 
永久磁铁
SJD4-3002NK
SJD4-3002NH
SJD4-3002PK
SJD4-3002PH
SJD4-4002GK
SJD4-4002GH
10Hz
50mA
-25℃...+70℃
ABS工程塑料

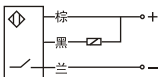
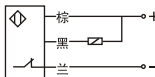
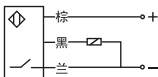
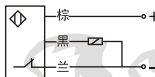
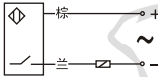
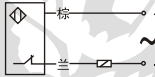
D5
 
永久磁铁
SJD5-3004NK
SJD5-3004NH
SJD5-3004PK
SJD5-3004PH
SJD5-4004GK
SJD5-4004GH
10Hz
50mA
-25℃...+70℃
ABS工程塑料

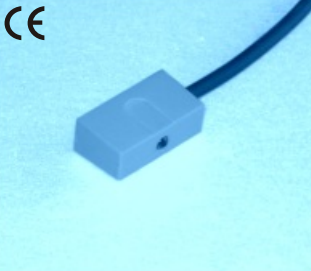
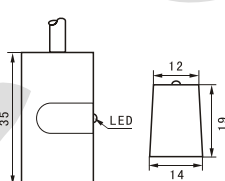
外形编号			
外形及尺寸			
电气接线图：			
			
NPN常开		NPN常闭	
			
PNP常开		PNP常闭	
			
交直流两线常开		交直流两线常闭	
检测体			
具 备 型 号	直 流 10- 30V	NPN 三线制	常 开
			常 闭
		PNP 三线制	常 开
			常 闭
	交直流两线 20-250V	常 开	
		常 闭	
技 术 参 数	响应频率		
	输出电流		
	环境温度		
	外壳材料		

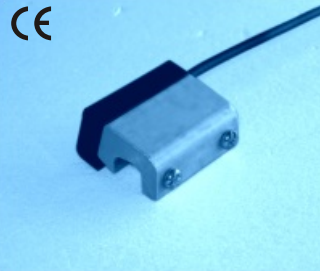
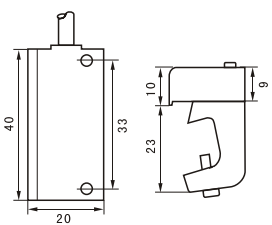
D6


永久磁铁
SJD6-3002NK
SJD6-3002NH
SJD6-3002PK
SJD6-3002PH
SJD6-4002GK
SJD6-4002GH
10Hz
50mA
-25℃...+70℃
ABS工程塑料

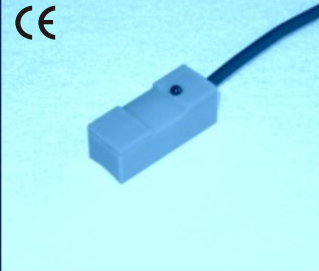
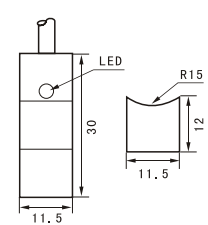
D7


永久磁铁
SJD7-3004NK
SJD7-3004NH
SJD7-3004PK
SJD7-3004PH
SJD7-4004GK
SJD7-4004GH
10Hz
50mA
-25℃...+70℃
ABS工程塑料

D8


永久磁铁
SJD8-3003NK
SJD8-3003NH
SJD8-3003PK
SJD8-3003PH
SJD8-4003GK
SJD8-4003GH
10Hz
50mA
-25℃...+70℃
ABS工程塑料

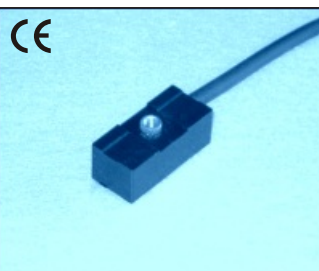
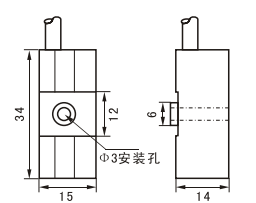
外形编号			
外形及尺寸			
电气接线图：			
			
NPN常开		NPN常闭	
			
PNP常开		PNP常闭	
			
交直流两线常开		交直流两线常闭	
检测体			
具 备 型 号	直 流 10- 30V	NPN 三线制	常 开
			常 闭
		PNP 三线制	常 开
			常 闭
	交直流两线 20-250V	常 开	
		常 闭	
技 术 参 数	响应频率		
	输出电流		
	环境温度		
	外壳材料		

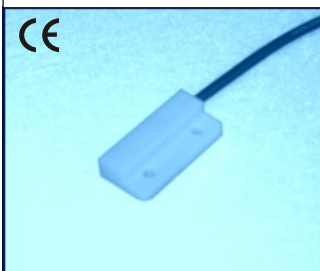
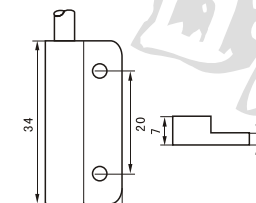
D14


永久磁铁
SJD14-3002NK
SJD14-3002NH
SJD14-3002PK
SJD14-3002PH
SJD14-4002GK
SJD14-4002GH
10Hz
50mA
-25℃...+70℃
ABS工程塑料

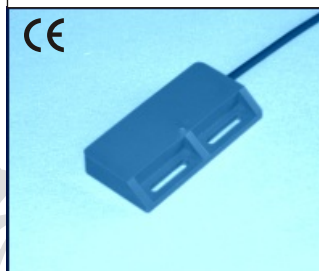
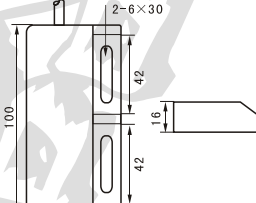
D22


永久磁铁
SJD22-3002NK
SJD22-3002NH
SJD22-3002PK
SJD22-3002PH
SJD22-4002GK
SJD22-4002GH
10Hz
50mA
-25℃...+70℃
ABS工程塑料

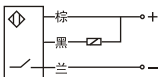
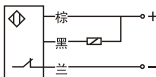
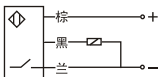
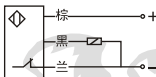
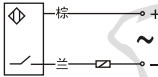
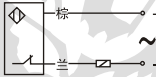
D31


永久磁铁
SJD31-3002NK
SJD31-3002NH
SJD31-3002PK
SJD31-3002PH
SJD31-4002GK
SJD31-4002GH
10Hz
50mA
-25℃...+70℃
ABS工程塑料

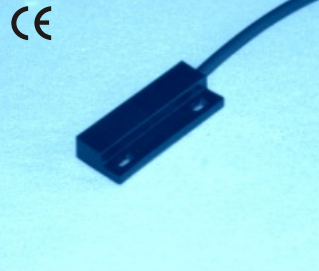
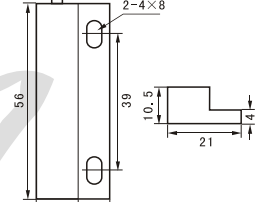
外形编号			
外形及尺寸			
电气接线图：			
NPN常开		NPN常闭	
PNP常开		PNP常闭	
交直流两线常开		交直流两线常闭	
检测体			
具 备 型 号	直 流 10- 30V	NPN 三线制	常 开
			常 闭
		PNP 三线制	常 开
			常 闭
	交直流两线 20-250V	常 开	
		常 闭	
技 术 参 数	响应频率		
	输出电流		
	环境温度		
	外壳材料		

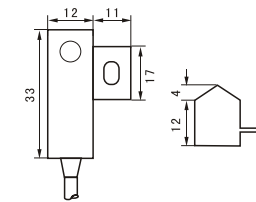
D35	
	
	
永久磁铁	
SJD35-3003NK	
SJD35-3003NH	
SJD35-3003PK	
SJD35-3003PH	
SJD35-4003GK	
SJD35-4003GH	
10Hz	
50mA	
-25℃...+70℃	
ABS工程塑料	

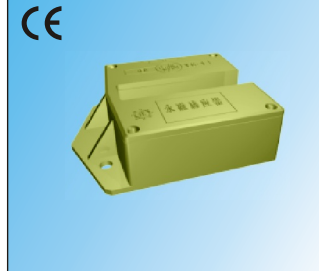
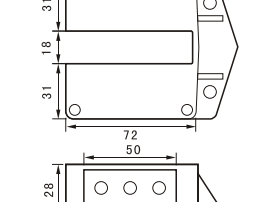
D36	
	
	
永久磁铁	
SJD36-3005NK	
SJD36-3005NH	
SJD36-3005PK	
SJD36-3005PH	
SJD36-4005GK	
SJD36-4005GH	
10Hz	
50mA	
-25℃...+70℃	
ABS工程塑料	

D50	
	
	
永久磁铁	
SJD50-3015NK	
SJD50-3015NH	
SJD50-3015PK	
SJD50-3015PH	
SJD50-4015GK	
SJD50-4015GH	
10Hz	
50mA	
-25℃...+70℃	
ABS工程塑料	

外形编号			
外形及尺寸			
电气接线图：			
			
NPN常开		NPN常闭	
			
PNP常开		PNP常闭	
			
交直流两线常开		交直流两线常闭	
检测体			
具 备 型 号	直 流 10- 30V	NPN 三线制	常 开
			常 闭
		PNP 三线制	常 开
			常 闭
	交直流两线 20-250V	常 开	
		常 闭	
技 术 参 数	响应频率		
	输出电流		
	环境温度		
	外壳材料		

D56	
	
	
永久磁铁	
SJD56-3010NK	
SJD56-3010NH	
SJD56-3010PK	
SJD56-3010PH	
SJD56-4010GK	
SJD56-4010GH	
10Hz	
50mA	
-25℃...+70℃	
ABS工程塑料	

H15	
	
	
永久磁铁	
SJH15-3002NK	
SJH15-3002NH	
SJH15-3002PK	
SJH15-3002PH	
SJH15-4002GK	
SJH15-4002GH	
10Hz	
50mA	
-25℃...+70℃	
ABS工程塑料	

F18	
	
	
永久磁铁	
SJF18-3018NK	
SJF18-3018NH	
SJF18-3018PK	
SJF18-3018PH	
SJF18-4018GK	
SJF18-4018GH	
10Hz	
50mA	
-25℃...+70℃	
铸铝	