HES 系列重载防爆开关 (EEX)

特点

- 结实的铝合金外壳，适用于极其恶劣的环境
- 符合 EN 60947-5-1, IEC 60947-5-1, UL508, NEMA250, CSA22.2 标准
- 多种执行机构可选
- 重复精度高 (0.03mm 线性)

参数

IEC 60947-5-1 / EN 90947-5-1							
电气额定值和使用类别		不同额定工作电压下的额定工作电流					控制容量 接通 / 分断
AC15	A600	120V	240V	380V	480V	600V	7200 / 720
		6A	3A	1.9A	1.5A	1.2A	
DC13	Q300	125VDC	250VDC				69 / 69
		0.55A	0.27A				

规格

操作速度	0.05mm-2m/s
额定电压/电流	10A/600V AC (EN60947-5-1) AC15 A600 / DC13 Q300
寿命	机械 1000万次 (最少) 电气 100万次 (最少)
环境温度	-28.9~+85°C (-20~185°F)
耐振动	25gn (10..150 Hz, 11ms) per IEC60068-2-6
耐冲击	60gn (9ms) per IEC 60068-2-27
绝缘强度	2200VAC 持续1分钟
短路保护	10A fuse
终端线	12-22AWG (2.05-0.644mm^2)
保护等级	IP 67 依照 IEC 60529, NEMA Types 2, 4, 6, 6P, 12, 13
HES 适用危险场地:	CLASS I DIV GROUPS B,C,D CLASS II DIV GROUPS E,F,G

* 可以提供超低温，高温款式。请和我们联系

选型指南:

HES 1 A 04 A - F

1 接点形式
- 1: SPDT (1NO/1NC) 快动
- 2: DPDT (2NO/2NC) 快动
- 3: DPDT (2NO/2NC) 两级动作
- 4: DPDT (2NO/2NC) 左右分别动作

A 1/2NPT 螺纹孔 (其他类型请联系我们)

04 执行机构
- 两位数字或两位数字加一个字母

A 杆臂形式
- B: 标准
- A: 高精度
- N: 轻动作力
- D: 高精度轻动作力
- C: 保持式
- TB: 左右分别动作
- TA: 左右分别动作(高精度)

F 橡胶密封
- 空白: 标准
- F: 氟橡胶

杆臂直径
- 空白: 11.0mm
- (AB): 8.0mm
- (CH): 7.0mm
- (HW): 7.3mm

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HES 系列重载防爆开关 (EEX)

柱塞式

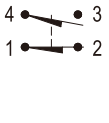
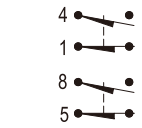
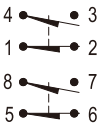
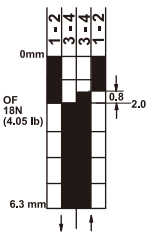
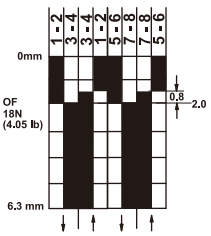
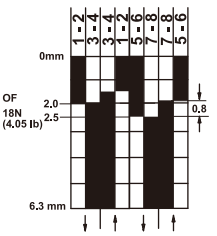
01 Style

11 Style

12 Style

13 styles

05 styles

HES-1A	HES-2A	HES-3A
1NO/1NC	2NO/2NC	2NO/2NC（两级动作）
		
		

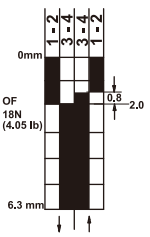
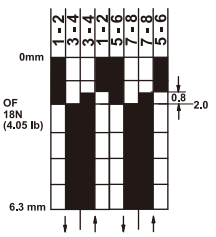
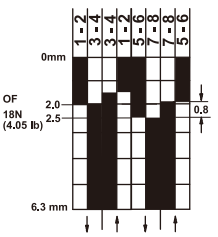
* 注：01款的动作力是 31.7N （7 lb）

侧柱塞式

11H styles

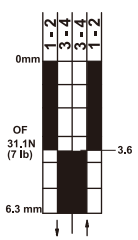
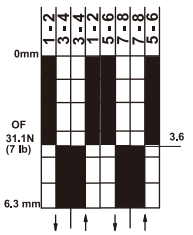
12Hstyles

13H styles

侧柱塞式（保持式）

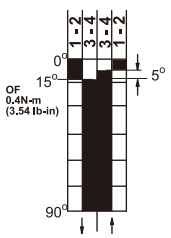
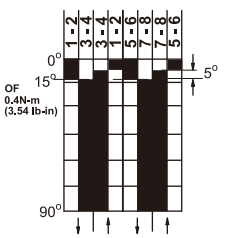
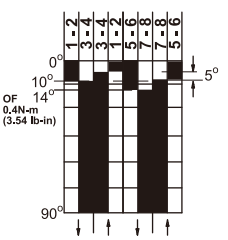
10H styles

ON OFF

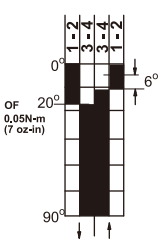
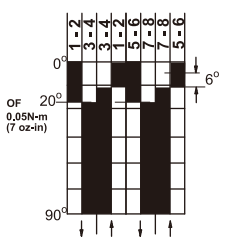
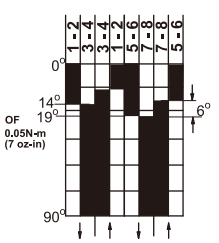
盘簧式

00 66 69

细盘簧式

68 Style

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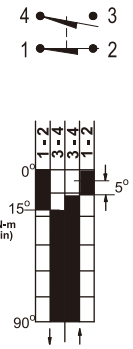
HES 系列重载防爆开关 (EEX)

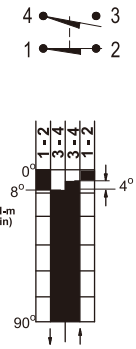
转动式头部行程动作图:

1NO/1NC
标准款



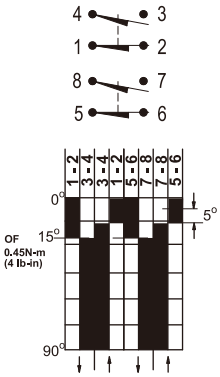
HES-1A-04B

1NO/1NC
高精密款



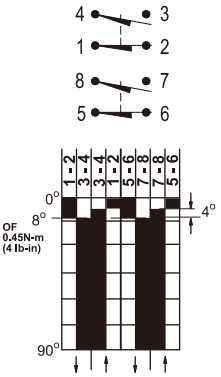
HES-1A-04A

2NO/2NC
标准款



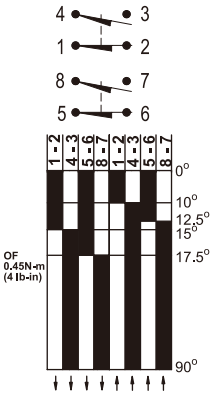
HES-2A-04B

2NO/2NC
高精密款



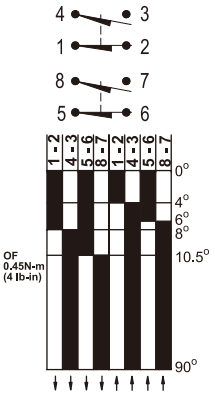
HES-2A-04A

2NO/2NC
标准款

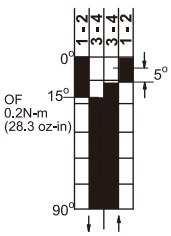


HES-3A-04B

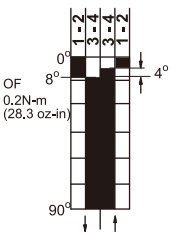
2NO/2NC
高精密款



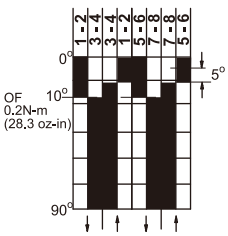
HES-3A-04A



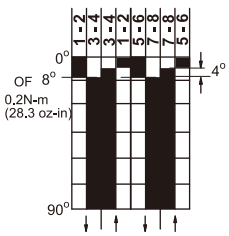
HES-1A-04N



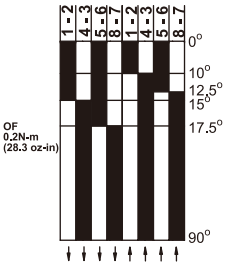
HES-1A-04D



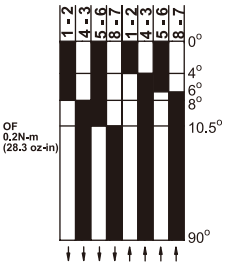
HES-2A-04N



HES-2A-04D

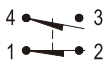


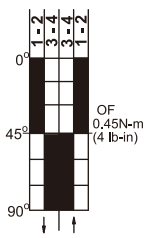
HES-3A-04N



HES-3A-04D

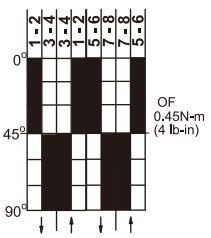
1NO/1NC
保持式





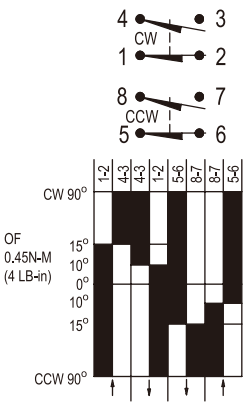
HES-1A-04C

2NO/2NC
保持式



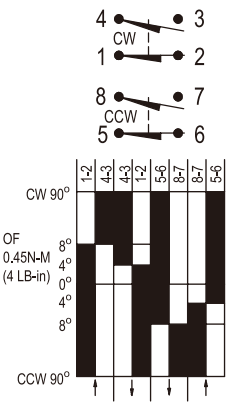
HES-2A-04C

2NO/2NC
左右分别动作



HES-4A-04TB

2NO/2NC
左右分别动作（高精密）



HES-4A-04TA

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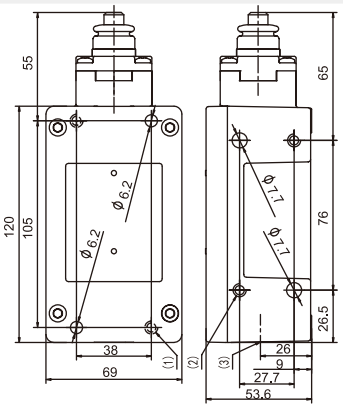
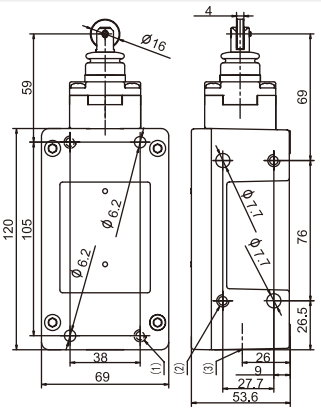
HES 系列重载防爆开关 (EEX)



型号

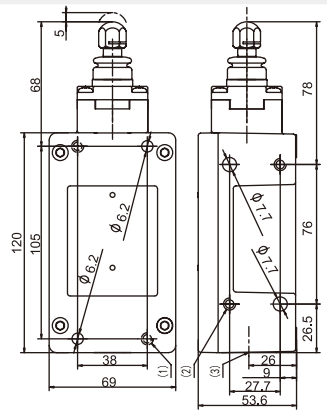
HES-1A-11: 1NO/1NC
HES-2A-11: 2NO/2NC
HES-3A-11: 2NO/2NC（两级动作）



型号

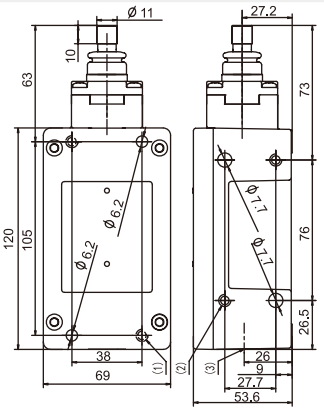
HES-1A-12: 1NO/1NC
HES-2A-12: 2NO/2NC
HES-3A-12: 2NO/2NC（两级动作）

动作位置（OP）可调



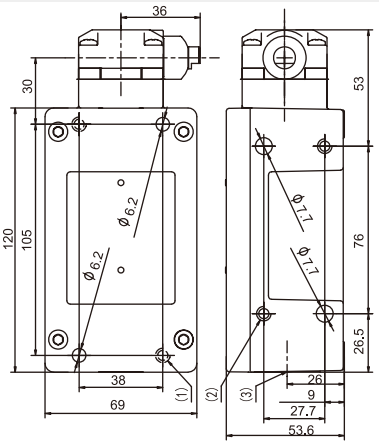
型号

HES-1A-13: 1NO/1NC
HES-2A-13: 2NO/2NC
HES-3A-13: 2NO/2NC（两级动作）



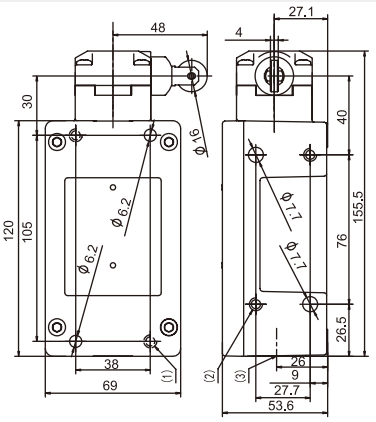
型号

HES-1A-01: 1NO/1NC
HES-2A-01: 2NO/2NC
HES-3A-01: 2NO/2NC（两级动作）



型号

HES-1A-11H: 1NO/1NC
HES-2A-11H: 2NO/2NC
HES-3A-11H: 2NO/2NC（两级动作）



*注：用户可将滚轮调为水平方向

型号

HES-1A-12H: 1NO/1NC
HES-2A-12H: 2NO/2NC
HES-3A-12H: 2NO/2NC（两级动作）

* 注：（1）：背面安装螺孔，两个1/4-20 UNC，深0.63英寸(16mm)
（2）：两侧安装螺孔，各两个1/4-20 UNC，深0.32英寸(8mm)
（3）：电缆出线孔，A:1/2"NPT；F:3/4"NPT

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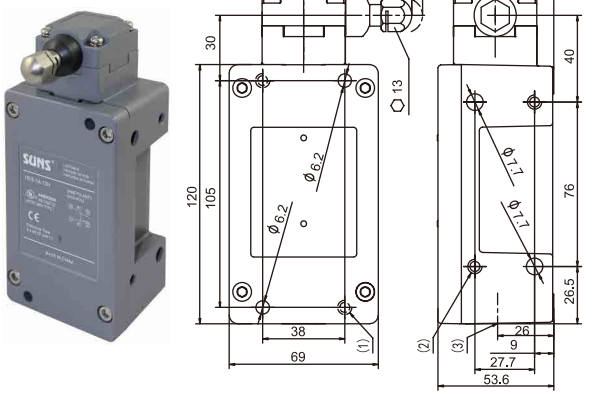
HES 系列重载防爆开关 (EEX)

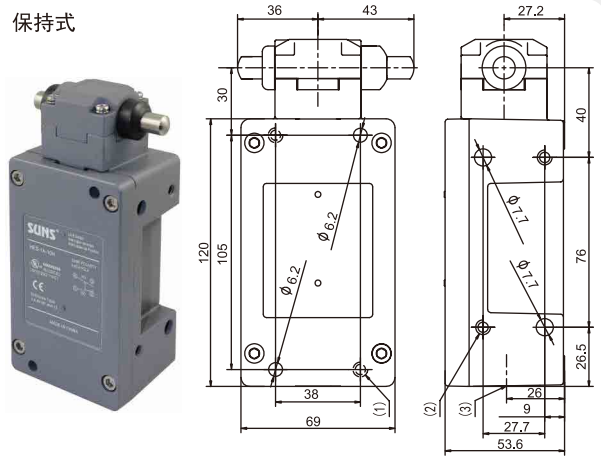
动作位置（OP）可调



型号

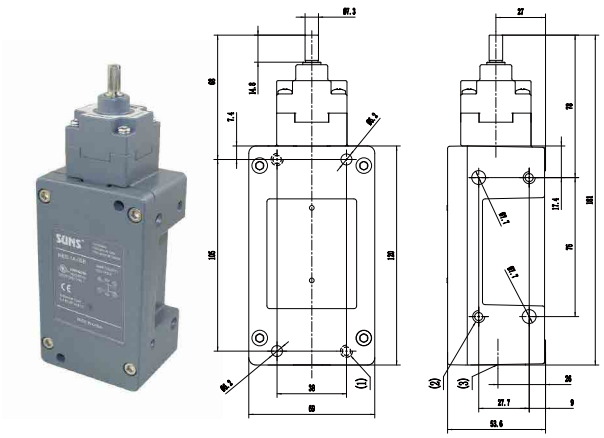
HES-1A-13H: 1NO/1NC
HES-2A-13H: 2NO/2NC
HES-3A-13H: 2NO/2NC（两级动作）

保持式



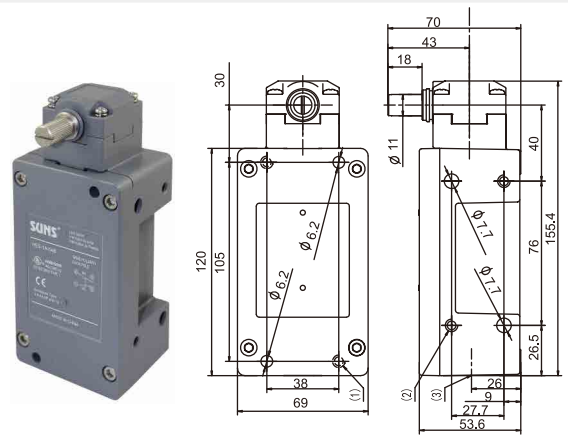
型号

HES-1A-10H: 1NO/1NC
HES-2A-10H: 2NO/2NC



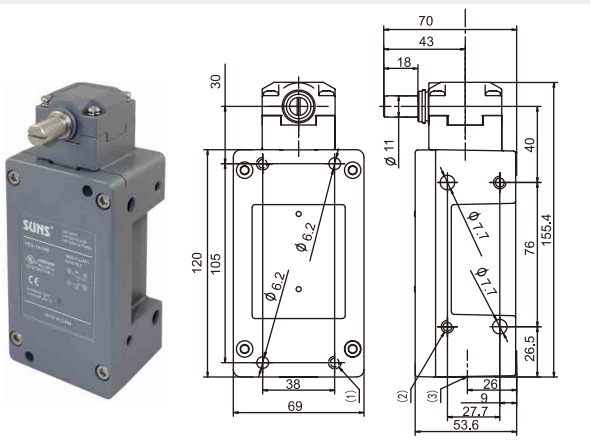
型号

HES-1A-05B(HW): 1NO/1NC
HES-2A-05B(HW): 2NO/2NC



型号

HES-1A-04B: 1NO/1NC 标准型
HES-1A-04A: 1NO/1NC 高精密型
HES-1A-04N: 1NO/1NC 轻动作力型
HES-1A-04D: 1NO/1NC 高精密，轻动作力型
HES-2A-04B: 2NO/2NC 标准型
HES-2A-04A: 2NO/2NC 高精密型
HES-2A-04N: 2NO/2NC 轻动作力型
HES-2A-04D: 2NO/2NC 高精密，轻动作力型
HES-3A-04B: 2NO/2NC 标准型（两级动作）
HES-3A-04A: 2NO/2NC 高精密型（两级动作）
HES-3A-04N: 2NO/2NC 轻动作力型（两级动作）
HES-3A-04D: 2NO/2NC 高精密，轻动作力型（两级动作）



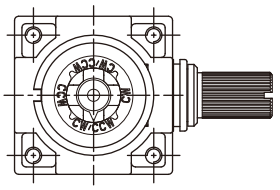
左右分别动作

HES-4A-04TA:2NO/2NC(高精密型)
HES-4A-04TB:2NO/2NC

保持式

HES-1A-04C: 1NO/1NC
HES-2A-04C: 2NO/2NC

头部出厂设置：顺时针和逆时针都触发开关。用户可以卸下头部，拉出头部机构，旋转到需要的相应指示。可实现只是顺时针或逆时针方向触发开关。



* 注：（1）：背面安装螺孔，两个1/4-20 UNC，深0.63英寸(16mm)
（2）：两侧安装螺孔，各两个1/4-20 UNC，深0.32英寸(8mm)
（3）：电缆出线孔，A:1/2"NPT；F:3/4"NPT

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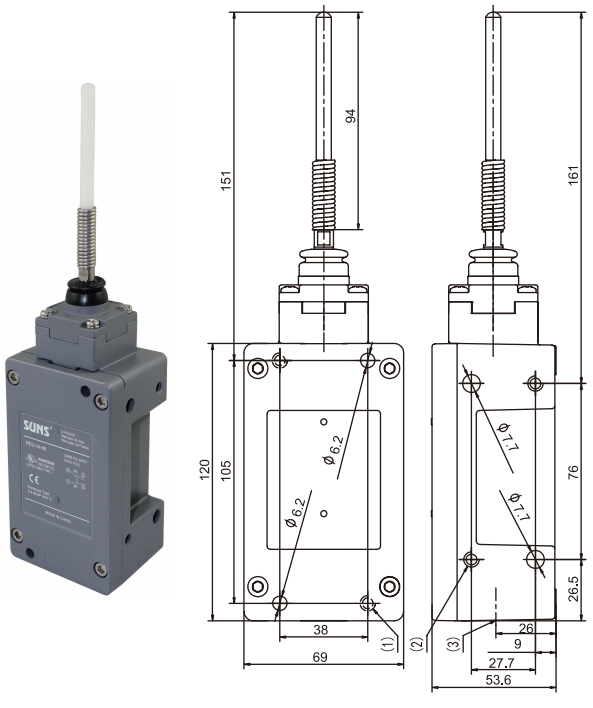
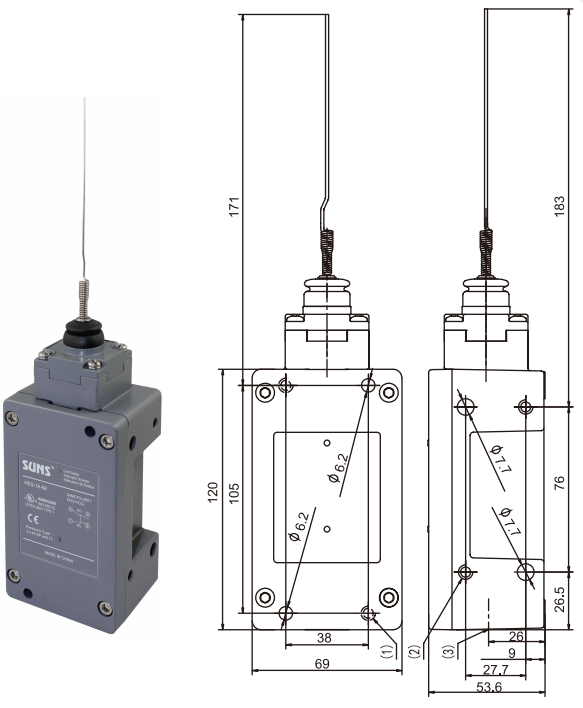
HES 系列重载防爆开关 (EEX)



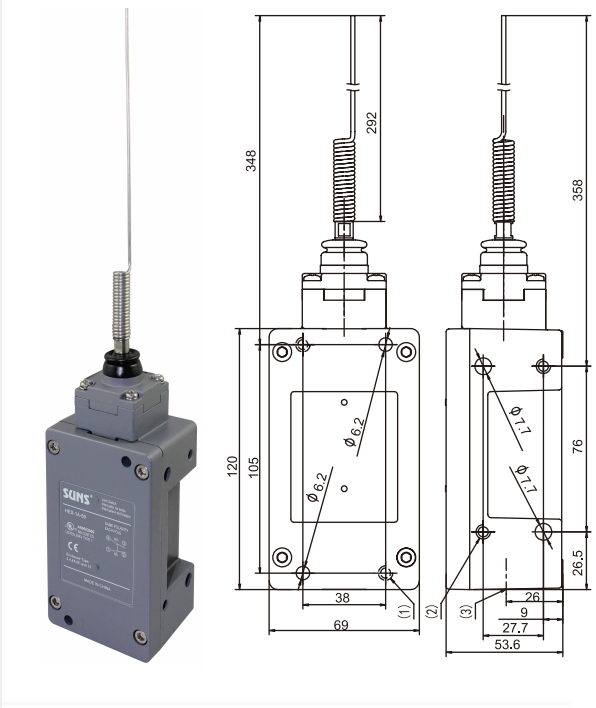
型号

HES-1A-66: 1NO/1NC
HES-2A-66: 2NO/2NC
HES-3A-66: 2NO/2NC（两级动作）



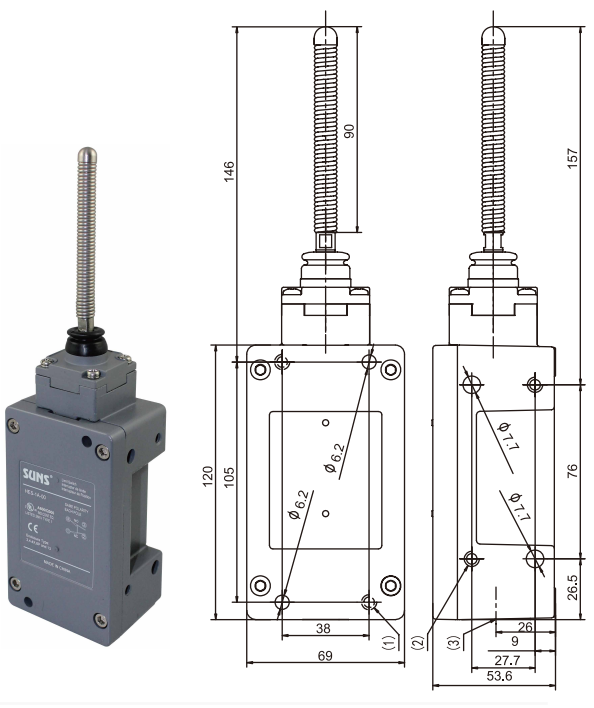
型号

HES-1A-68: 1NO/1NC
HES-2A-68: 2NO/2NC
HES-3A-68: 2NO/2NC（两级动作）



型号

HES-1A-69: 1NO/1NC
HES-2A-69: 2NO/2NC
HES-3A-69: 2NO/2NC（两级动作）



型号

HES-1A-00: 1NO/1NC
HES-2A-00: 2NO/2NC
HES-3A-00: 2NO/2NC（两级动作）

* 注：（1）：背面安装螺孔，两个1/4-20 UNC，深0.63英寸(16mm)
（2）：两侧安装螺孔，各两个1/4-20 UNC，深0.32英寸(8mm)
（3）：电缆出线孔，A:1/2"NPT；F:3/4"NPT

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摆臂

H-04B H-04C

H-04D H-04E H-04F

H-05-1 H-05-1LH H-05-1RH

*适用于HMS/HLS/HNS/HES/HEX/HCX系列

铝铸件滚轮摆臂

需要尼龙材料：在型号后面加 -P

摆臂长度 in. (mm)	滚轮直径 in. (mm)	滚轮厚度 in. (mm)	订货型号
1.38 (35)	0.75 (19)	0.25 (6.3)	H-04B1
		0.63 (16)	H-04B2
	0.63 (16)	0.25 (6.3)	H-04B3
		0.63 (16)	H-04B4
	1 (25.4)	0.63 (16)	H-04B5
1.5 (38)	0.75 (19)	0.25 (6.3)	H-04C1
		0.63 (16)	H-04C2
	0.63 (16)	0.25 (6.3)	H-04C3
		0.63 (16)	H-04C4
		1(25.4)	H-04C5
		1.97(50)	H-04C6
2 (51)	0.75 (19)	0.25 (6.3)	H-04D1
		0.63 (16)	H-04D2
	0.63 (16)	0.25 (6.3)	H-04D3
		0.63 (16)	H-04D4
2.5 (63.5)	0.75 (19)	0.25 (6.3)	H-04E1
		0.63 (16)	H-04E2
	0.63 (16)	0.25 (6.3)	H-04E3
		0.63 (16)	H-04E4
3 (76)	0.75 (19)	0.25 (6.3)	H-04F1
		0.63 (16)	H-04F2
	0.63 (16)	0.25 (6.3)	H-04F3
		0.63 (16)	H-04F4

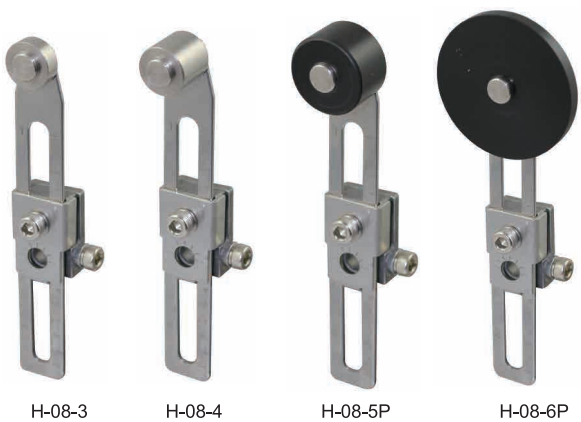
*安装孔到滚轮中心距离

90° 双滚轮（羊角式）

需要尼龙材料：在型号后面加 -P

摆臂长度 in. (mm)	滚轮			订货型号
	滚轮位置	滚轮直径 in. (mm)	滚轮厚度 in. (mm)	
1.5 (38)	两滚轮在同侧	0.75 (19)	0.25 (6.3)	H-05-1
		0.63 (16)	0.25 (6.3)	H-05-3
	右滚轮在对侧	0.75 (19)	0.25 (6.3)	H-05-1RH
		0.63 (16)	0.25 (6.3)	H-05-3RH
	左滚轮在对侧	0.75 (19)	0.25 (6.3)	H-05-1LH
		0.63 (16)	0.25 (6.3)	H-05-3LH

*安装孔到滚轮中心距离


H-08-3 H-08-4 H-08-5P H-08-6P

金属轮可调摆臂

摆臂长度 in. (mm)	滚轮直径 in. (mm)	滚轮厚度 in. (mm)	订货型号
不可折弯，可调范围：22-101mm	0.63 (16)	0.25 (6.3)	H-08-3
	0.63 (16)	0.63 (16)	H-08-4
	0.75(19)	0.25(6.3)	H-08-5
用户可折弯，可调范围：22-101mm	0.63 (16)	0.25 (6.3)	H-08B-3
	0.63 (16)	0.63 (16)	H-08B-4
	0.75(19)	0.25(6.3)	H-08B-5

塑料轮可调摆臂

摆臂长度 in. (mm)	滚轮直径 in. (mm)	滚轮厚度 in. (mm)	订货型号
不可折弯，可调范围：22-101mm	0.63 (16)	0.25 (6.3)	H-08-3P
	1 (25.4)	0.63 (16)	H-08-5P
	0.75(19)	0.25(6.3)	H-08-7P
用户可折弯，可调范围：22-101mm	0.63 (16)	0.25 (6.3)	H-08B-3P
	1.0 (25.4)	0.63 (16)	H-08B-5P
	2 (51)	0.25 (6.3)	H-08B-6P

*安装孔到滚轮中心距离

*适用与11mm轴直径（无后缀）、7.0m轴直径（后缀-CH）、7.3mm轴直径（后缀-HW）和8.0mm轴直径（后缀-AB）

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摆臂

H-06/H-09　H-07-10　H-07P-12　H-07-S-12

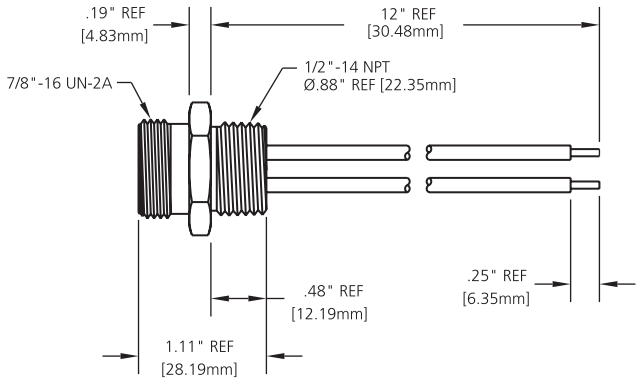
*适用于HMS/HLS/HNS/HES/HEX/HCX系列

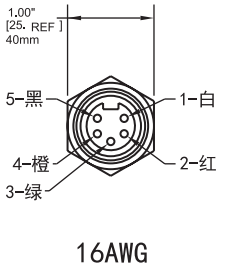
杆型摆臂

说明	长度 in. (mm)	订货型号
不锈钢杆	10 (254)	**H-07-10**
钢制盘簧杆	12 (304)	**H-07S-12**
钢盘簧聚甲醛树脂秆	12 (304)	**H-07P-12**
环型聚甲醛树脂棒	6.3 (160)	**H-06**
环型聚甲醛树脂棒	9 (228)	**H-09**

* 适用于 11mm 轴直径（空后缀）、7.0mm轴直径（后缀 -CH）、7.3mm 轴直径（后缀 -HW）和 8.0mm 轴直径（后缀 -AB）

NPT12-16-5P 接线器 (5-PIN)

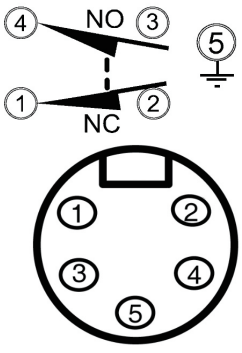




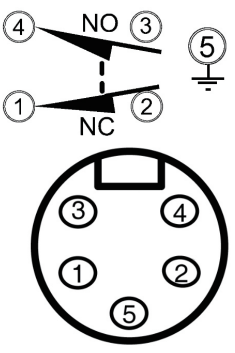
16AWG

如要预定配有NPT-12-16-5P 连接器的预接线款，请于产品型号后加上 -Q1 或 -Q9 后缀

-Q1: 接线图



-Q9: 接线图



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