

压力开关

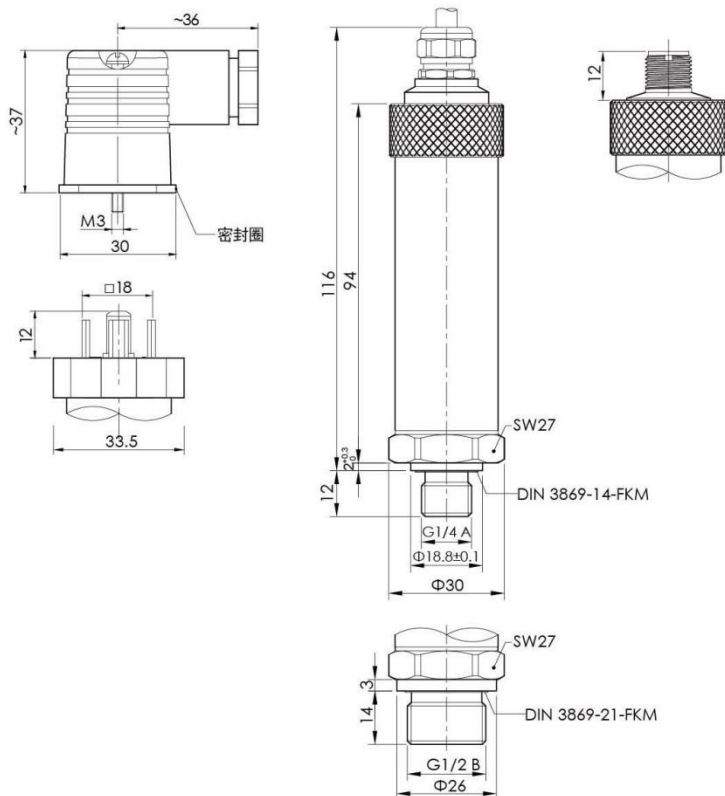
Electronic
Pressure Switch

SDW1100系列

应用于数控机床、
液压气动和压力自动控制领域

- 全焊接结构，防护等级IP65/IP67
- 精度高，性能稳定，综合精度可达 $\pm 0.5\%$ F.S
- 外型小巧，美观，安装方便
- 可编程
- EMC性能极佳，抗振动、抗干扰

外形尺寸图 Dimensions



技术参数 Technical Parameter

参数		Specifications	技术指标			Technical Data		
压力范围		Pressure range	0~1...2...5...8...16...30...50...100...400...500...600...800...1000Bar					
过载能力		Overload	200%F.S		150%F.S		150%F.S	
破坏压力		Broken pressure	500%F.S		300%F.S		200%F.S	
工作方式		Operational Mode	表压、绝压 Gague, Absolute					
测量介质		Measuring Media	与316L不锈钢兼容的介质 Compatible with 316L stainless steel					
工作电压		Operating voltage	24VDC(12~30VDC)					
输出信号		Output signal	开关量输出 (常开或常闭) On-off output					
负载电流		Load current	1.2A per output max.					
综合精度		Comprehensive precision	0.5%F.S					
温度补偿范围		Compensated temperature range	-20~80℃					
工作温度范围		Operatingtemperature range	-40~85℃					
保存温度范围		Storage temperature range	-40~140℃					
温度漂移		Temperature drifting	0.05%F.S/℃					
长期稳定性		Long-Term Stability	≤0.2%F.S/year					
漏电流		Leakage current	≤1mA					
绝缘阻抗		Insulation resistance	≥100MΩ(100VDC)					
振动频率		Vibration frequency	0~300Hz					
耐冲击		Strike proof	50g(11ms)					
耐振性		Shock proof	15g					
材质		Material	不锈钢 Stainless steel					
防护等级		Protection class to DIN 40050	IP 65 (3pole+PE,DIN 43650 male) IP 67 (M12x1 4-pole male) IP 68 (connector is used)					
螺纹接口		Connection thread	G1/4-A, G1/2-B, G1/4					

11-系列 压力开关

选型表 Model code:

SDP 1 1 X X - X-XXXX X (000)

机械连接 Mechanical connection

- 0 = G1/2-A DIN 3852 (male)
- 4 = G1/4-A DIN 3852 (male)
- 9 = G1/4 threaded port DIN 3852
- M = 客户定制

电气连接 Electrical connection

- 5 = 3 pole + PE, DIN 43650, male
(connector supplied)
- 6 = M12x1 4-pole, male
(connector not supplied)
- 0 = flying lead (Teflon cable silicone-free)

输出信号 Signal

- 1 = 1路开关量输出常闭
- 2 = 1路开关量输出常开

压力范围(Bar) Pressure ranges in Bar

- 0001 = 0~1Bar
- 0016 = 0~16Bar
- 1000 = 0~1000Bar
- (压力范围0~1...1000Bar可选)

工作方式 Operational Mode

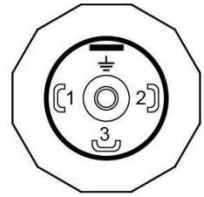
- A = 绝压 Absolute
- G = 表压 Gauge

导线 Modification number

- 000 = 标准 (无电缆线)
- 020 = 2m 电缆线 (对应电器连接选项母端电缆线)
- 050 = 5m 电缆线 (对应电器连接选项母端电缆线)

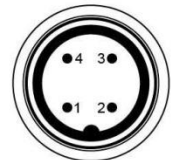
接线定义 Pin connections:

DIN 43650



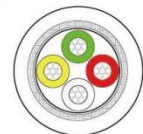
Pin	SDP1100
1	+24VDC
2	0 V
3	SP1+
$\perp$	SP1-

M12x1 4-pole male



Pin	SDP1100
1	+24VDC
2	0 V
3	SP1+
4	SP1-

Flying lead



Cable assignment

Core	SDP1100
red	+24VDC
yellow	SP1+
green	0 V
white	SP1-
silver mesh	shielding wire

等效电路 Equivalent circuit:

