

压力传感器

Electronic
Pressure Sensor

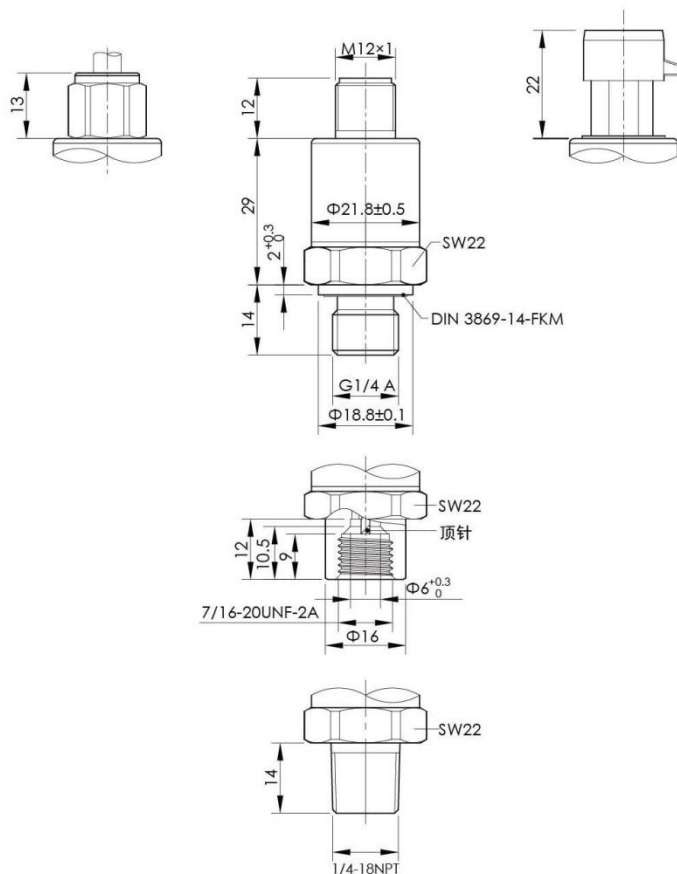
SDP6300系列

应用于汽车、机床、空调等领域

- 优异的EMC性能
- 通过盐雾、温湿度测试
- 防护等级IP65/IP67
- 符合RoHs,CE认证



外形尺寸图 Dimensions



技术参数 Technical Parameter

参数	Specifications	技术指标	Technical Data
输入数据		Input data	
压力范围	Measuring ranges	0 ~ 1...2...5...8...16...30...50...100...400...500...600Bar	
过载压力	Overload pressures	200%F.S	150%F.S
破坏压力	Burst pressures	500%F.S	300%F.S
机械接口	Mechanical connection	G1/4-A 7/16-20UNF-2A	
锁紧扭力	Torque value	20 N.m 12N.m	
与介质接触部分	Parts in contact with medium	Mech. connection: Stainless steel Seal: FKM	
输出数据		Output data	
输出信号及阻抗	Output signal, permitted resistance	0.5 .. 4.5 V, 3 conductor	
精度为DIN 16086	Accuracy to DIN 16086 Max. setting	$\leq \pm 0.5\%$ F.S typ. $\leq \pm 1.0\%$ F.S max.	
非线性	Non-linearity at max. setting to DIN 16086	$\leq \pm 0.3\%$ F.S max.	
迟滞	Hysteresis	$\leq \pm 0.1\%$ F.S max.	
重复精度	Repeatability	$\leq \pm 0.05\%$ F.S	
压力上升时间	Rise time	≤ 2 ms	
长期稳定性	Long-term drift	$\leq \pm 0.1\%$ FS typ. / year	
环境条件		Environmental conditions	
温度补偿范围	Compensated temperature range	-25~ +85 °C	
工作温度范围	Operating temperature range	-35~ +125 °C	
储存温度范围	Storage temperature range	-40~ +135 °C	
流体温度范围	Fluid temperature range	-35~ +100 °C	
CE 标记	CE mark	EN 61000-6-1 / 2 / 3 / 4	
耐振性	Vibration resistance to DIN EN 60068-2-6 at 10 .. 500 Hz	≤ 20 g	
防护等级	Protection class to DIN 40050	IP 65 (Packard 3-pole male) IP 67 (M12x1 4-pole male) IP 67 (connector is used)	
其他数据		Other data	
工作方式	Operational Mode	绝压, 表压 Absolute, Gauge	
工作电压	Operating voltage	5 $\pm$ 0.5VDC	
消耗电流	Current consumption	<10 mA	

63-系列 压力传感器

选型表 Model code:

SDP 6 3 X X -X-XXX-X (000)

机械连接 Mechanical connection

- 3 = 7/16-20UNF-2A
- 4 = G1/4-A DIN 3852(male)
- 8 = 1/4 -18 NPT
- M = 客户定制

电气连接 Electrical connection

- 0 = flying lead (Teflon cable,silicone-free)
- 2 = Packard Metri pack series 150,3-pole male
- 6 = M12x1 4-pole, male (connector not supplied)

输出信号 Signal

- D = 0.5~4.5V, 3conductor

压力范围(Bar) Pressure ranges in Bar

- 001 = 0~1Bar ;
- 016 = 0~16Bar ;
- 600 = 0~600Bar;
- (压力范围0~1...600Bar可选)

工作方式 Operational Mode

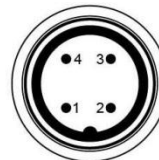
- A = 绝压 Absolute;
- G = 表压 Gauge ;

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)

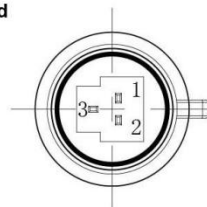
接线定义 Pin connections:

M12x1 4-pole male



Pin	SDP63X6-D
1	+5VDC
2	Signal
3	0V
4	n.c.

Packard



Pin	SDP63X2-D
1	+5VDC
2	Signal
3	0V

Flying lead



Cable assignment

Core	SDP63X0-D
red	+5VDC
yellow	Signal
green	0V
white	n.c.
silver mesh	shielding wire