

压力传感器

Electronic Pressure Sensor

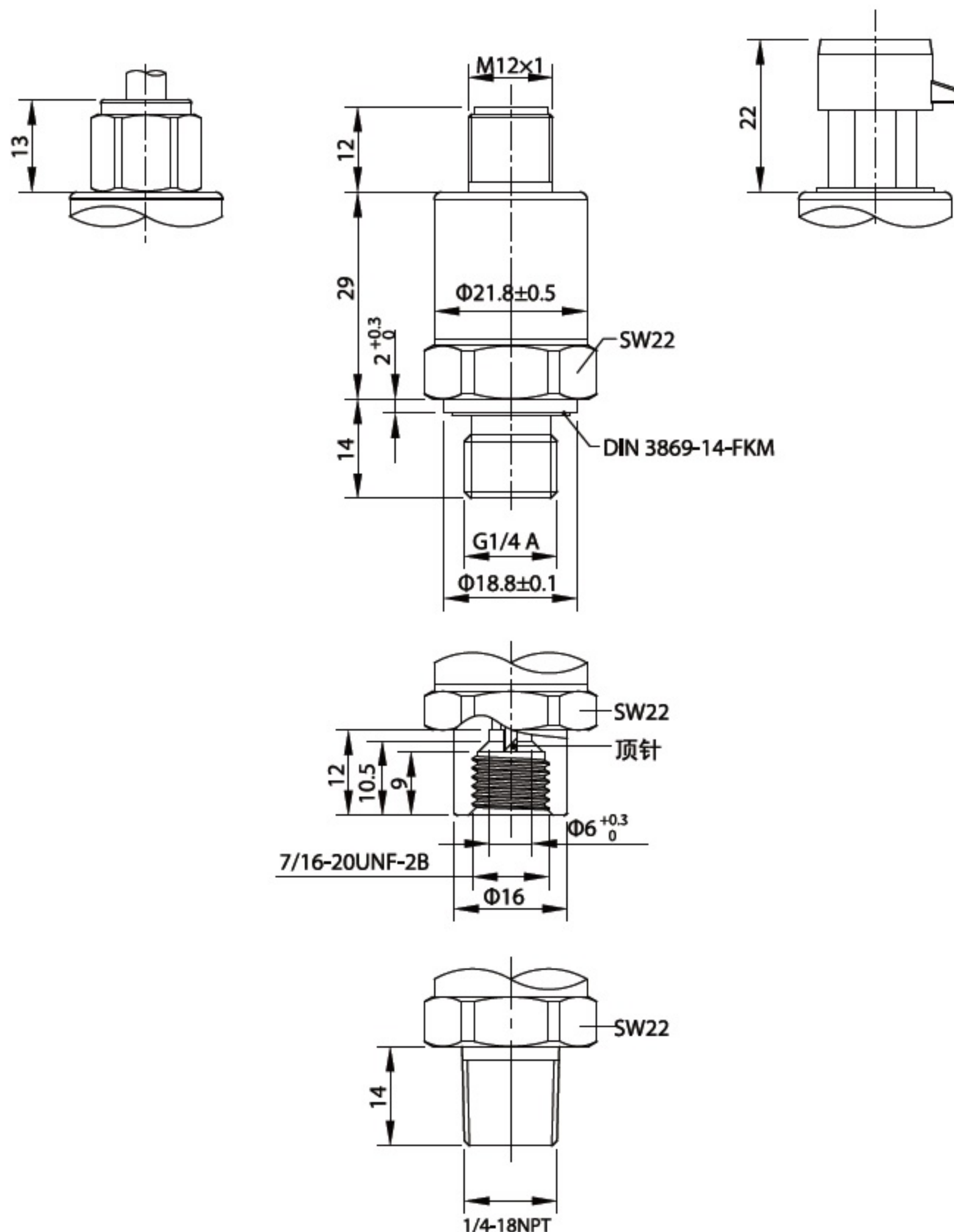
SDP6300系列

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
- 防护等级达到IP67
- 符合RoHs,CE认证



外形尺寸图 **Dimensions**



63-系列 压力传感器

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-2B	
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	≤± 0.5% F.S typ. ≤± 1.0 % F.S max.	
非线性	Non-linearity at max. setting to DIN 16086	≤± 0.3 % F.S max.	
迟滞	Hysteresis	≤ ± 0.1 % F.S max.	
重复精度	Repeatability	≤± 0.05 % F.S	
压力上升时间	Rise time	≤2 ms	
长期稳定性	Long-term drift	≤± 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	
EMC抗干扰强度 EMC Test			
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 (flying lead)	
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±0.5VDC (5~32VDC可选)	
消耗电流	Current consumption	<10 mA	

选型表 Model code:

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

机械连接 Mechanical connection

- 3 = 7/16-20UNF-2B
- 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

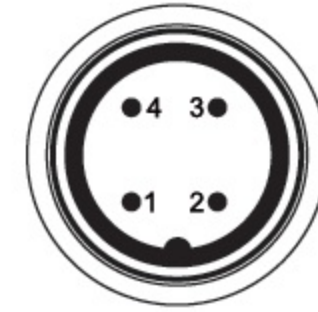
- A = 绝压 Absolute;
- G = 表压 Gauge ;

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)

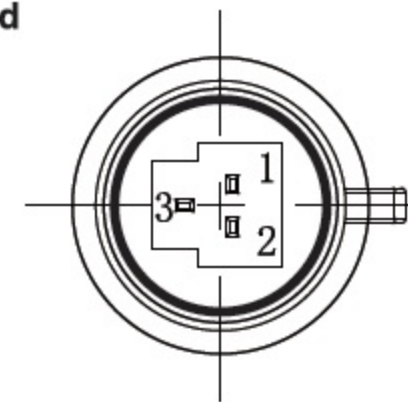
接线定义 Pin connections:

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

