

智能， 压力变送器

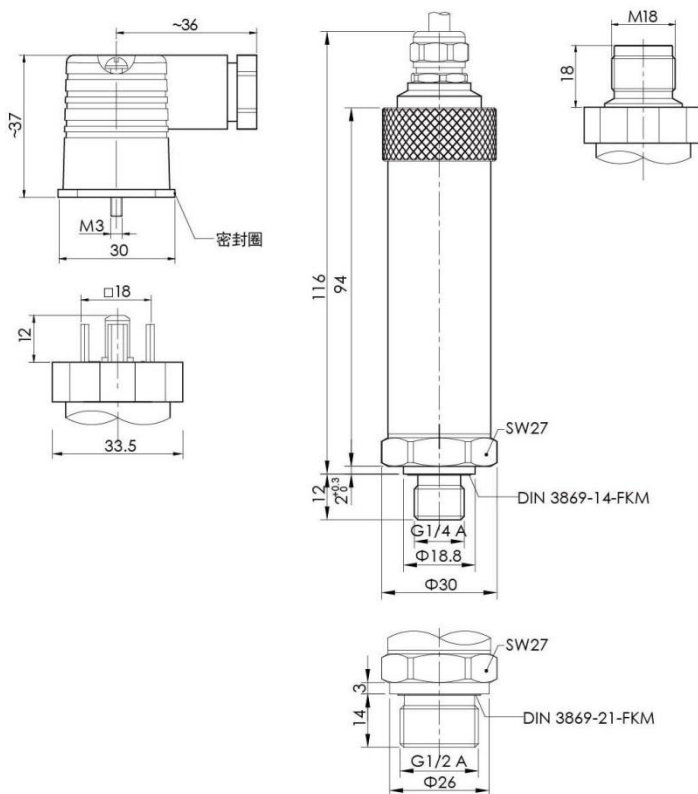
Electronic
Pressure Transmitter

SDP6800系列

应用于工程机械、自动化控制、
钢铁和能源行业

- 精度极高，最小设定精度 $\leq \pm 0.05\%$ F.S typ.
- 温差极小，零点温度补偿 $\leq \pm 0.008\%$ F.S/ $^{\circ}\text{C}$ typ.
- EMC性能极佳，符合CE认证
- 防护等级IP65/IP67/IP68
- 高精度，可在线校准

外形尺寸图 Dimensions



68-系列 压力变送器

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...600...800...1000Bar	
过载压力	Overload pressures	200%F.S	150%F.S 150%F.S
破坏压力	Burst pressures	500%F.S	300%F.S 200%F.S
机械接口	Mechanical connection	G1/4-A	G1/2-A
锁紧扭力	Torque value	20 N.m	45N.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	Output signal	CANOpen Modbus Profibus	
精度为DIN 16086	Accuracy to DIN 16086 Max. setting	≤± 0.05% F.S typ. ≤± 0.1 % F.S max.	
非线性	Non-linearity at max. setting to DIN 16086	≤± 0.02 % 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	≤1ms	
长期稳定性	Long-term drift	≤± 0.1 % F.S 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	-40~ +85 °C	
储存温度范围	Storage temperature range	-40~ +100 °C	
流体温度范围	Fluid temperature range	-40~ +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 (3pole+PE,DIN 43650 male and Binder 714 M18) IP 67 (M12x1 4-pole male) IP 68 (connector is used)	
其他数据 Other data			
工作方式	Operational Mode	绝压, 表压 Absolute,Gague	
工作电压	Operating voltage	5 .. 30 VDC	
电压电流残余脉冲	Residual ripple of supply voltage	≤5 %	

选型表 Model code:

SDP 6 8 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

- 4 = 4 pole Binder series 714 M18, male
(connector not supplied)
- 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

- K = CANOpen
- M = Modbus
- P = Profibus

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

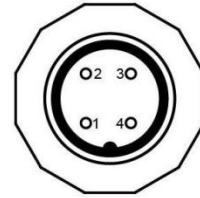
- A = 绝压 Absolute
- G = 表压 Gague

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)

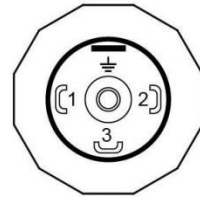
接线定义 Pin connections:

Binder series 714 M18



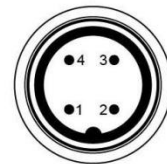
Pin	SDP6800
1	+U _B
2	0 V
3	Signal+
4	Signal-

DIN 43650



Pin	SDP6800
1	+U _B
2	0 V
3	Signal+
⊥	Signal-

M12x1 4-pole male



Pin	SDP6800
1	+U _B
2	0 V
3	Signal+
4	Signal-

Cable assignment

Core	SDP6800
red	+U _B
yellow	Signal+
green	0 V
white	Signal-
silver mesh	shielding wire

Flying lead

