

温度开关

Temperature
switch

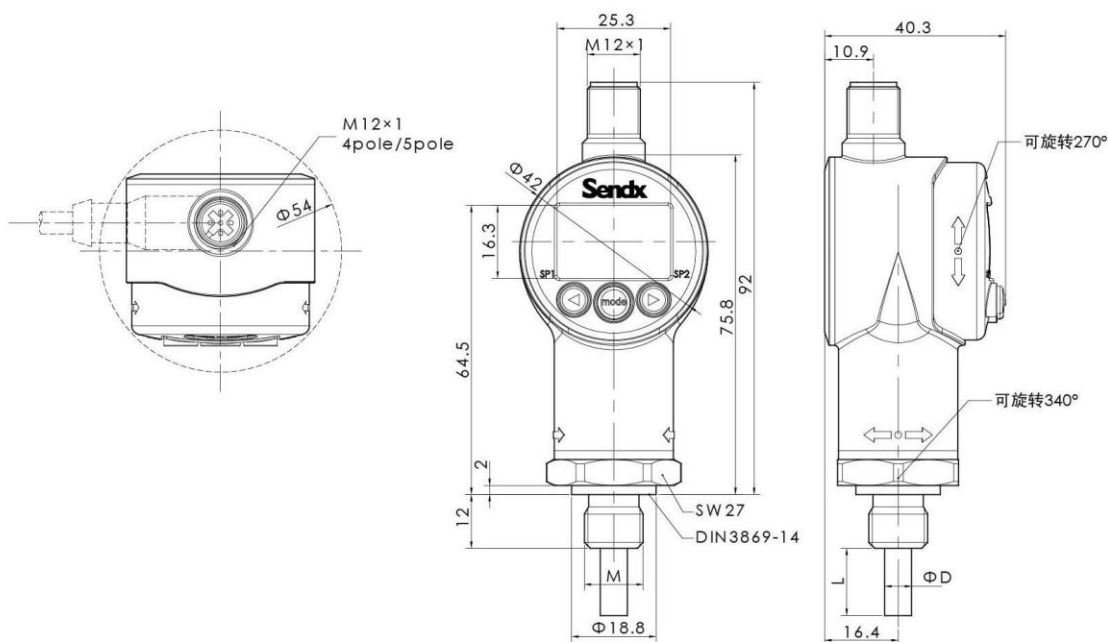
SdT5400系列

应用于工业、冶金及机械液压领域

- 精度 $\leq 0.02\%$ F.S.
- 4个字符的数字显示，实时显示设定值和
- 当前值，单位可以任选
- 设计紧凑，可随意转动调节，使用方便
- 可任意设置开关量动作
- 可编程
- 电磁兼容性好
- 良好的长期稳定性
- 防护等级IP67



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		
温度范围	Measuring range	-25...+125℃	
探头长度	Probe length	18mm (selectable) max. 800	
耐压性	Pressure resistance	600Bar	
机械连接	Mechanical connection	G1/4 A DIN 3852 Threaded port DIN 3852-G1/4 G1/2 B DIN 3852	
锁紧扭力	Torque value	20N.m 20N.m	45N.m
输出数据	Output data		
输出信号	Output signal	Selectable	
开关类型	Type	-1PNP transistor switching output -2PNP transistor switching outputs (only in conjunction with electr.conn.M12×1,4 pole)	
开关方向	Switching direction	N/C/C/O function(according to customer specification)	
输出量	Output load	≤500mA per Switching output	
精度	Accuracy	≤±1.5%F.S typ. ≤± 3.0%F.S max.	
重复精度	Repeatability(at 25℃)	≤±1.0%F.S max.	
开关延迟	Rising switch point and falling switch point delay	32ms standard (8...2000ms pre-set to customer spec.)	
环境条件	Ambient conditions		
环境温度范围	Ambient temperature range	-40...+85℃	
储存温度范围	Storage temperature range	-40...+100℃	
流体温度范围	Fluid temperature range	-40...+125℃	
CE 标记	CE mark	EN 61000-6-1/2/3/4	
耐振动	Vibration resistance to DIN EN 60068-2-6 at 10..500Hz	≤25g	
耐冲击	Shock resistance to DIN EN 60068-2-27	100g/6ms/half sine 500g/1ms/half sine	
防护等级	Protection class to DIN 40050	IP67	
其他数据	Other data		
电气连接	Electrical connection	M12×1 4-pole male M12×1 5-pole male	
电源电压	Supply voltage	24VDC±4VDC	
电压电流残余脉冲	Residual ripple of supply voltage	≤ 5%	
重量	Weight	approx. 150 g	

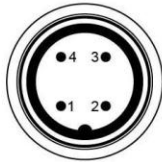
54-系列 温度开关

选型表 Model code:

SDT 54 X X - X - X - X - XXX (000)									
机械连接 Mechanical connection									
1	=	G1/2-B	DIN 3852 (male)						
4	=	G1/4-A	DIN 3852 (male)						
5	=	G3/8-A	DIN 3852 (male)						
6	=	R1/4							
8	=	1/4-18 NPT							
A	=	M20×1.5							
B	=	M12×1							
C	=	M12×1.5							
D	=	M14×1.5							
E	=	1/8 NPT							
F	=	R3/8							
G	=	M10×1							
H	=	R1/2							
M	=	客户定制							
电气连接 Electrical connection									
6	=	M12x1	4 pole, male (connector not supplied)						
8	=	M12x1	5 pole, male (connector not supplied)						
输出信号 Output									
0	=	一路常闭							
1	=	一路常开							
2	=	两路开关							
3	=	一路开关, 一路4~20mA							
5	=	二路开关, 一路4~20mA							
操作温度 (°C) Operating temperature in °C									
1	=	-30 °C~+130 °C							
2	=	-40 °C~+130 °C							
3	=	-40 °C~+150 °C							
4	=	-50 °C~+150 °C							
9	=	客户定制							
保护管直径 D(mm) Protective tube diameter D in mm									
4	=	4mm							
5	=	6mm							
6	=	8mm							
9	=	客户定制							
内置长度 (mm) Built-in length L in mm									
005:	L=	5mm							
050:	L=	50mm							
200:	L=	200mm							
800:	L=	800mm							
L:0~800mm	范围内可选								
其他选型 Other options									
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)							

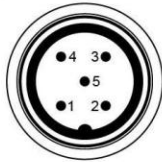
接线定义 Pin connections:

M12×1 4-pole male

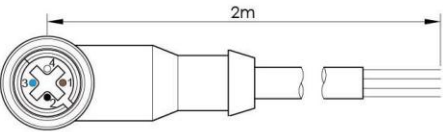


Pin	SDT54X6 -0	SDT54X6 -1	SDT54X6 -2	SDT54X6 -3
1	+24VDC	+24VDC	+24VDC	+24VDC
2	n.c.	n.c.	SP2	4~20mA
3	0V	0V	0V	0V
4	SP1	SP1	SP1	SP1

M12×1 5-pole male

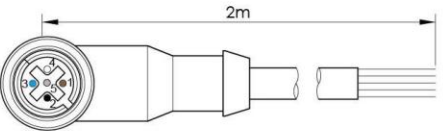


Pin	SDT54X8 -5
1	+24VDC
2	4~20mA
3	0V
4	SP1
5	SP2



Female connector M12×1
4-pole male,right-angle

- 1号线: 棕色
- 2号线: 白色
- 3号线: 蓝色
- 4号线: 黑色



Female connector M12×1
5-pole male,right-angle

- 1号线: 棕色
- 2号线: 白色
- 3号线: 蓝色
- 4号线: 黑色
- 5号线: 灰色