

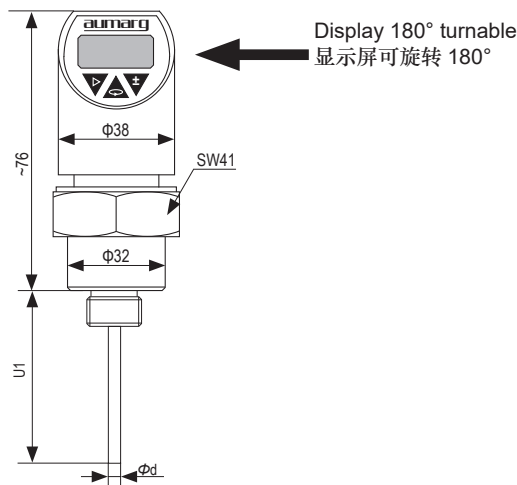


### Temperature Switch 温度开关

- Measuring ranges from -50°C to 150°C
- Switch output PNP, support switch action delay
- Configurable analogue output
- E-connection: M12×1, 5-Pin
- Max-memory
- Process connection G1/2", G1/4" and others

- 测量范围从 -50°C 到 150°C
- PNP 开关输出，支持开关动作延时
- 可配置模拟量输出
- 电气连接：M12×1，5 针
- 峰值记忆
- 过程连接为 G1/2"，G1/4" 或其他

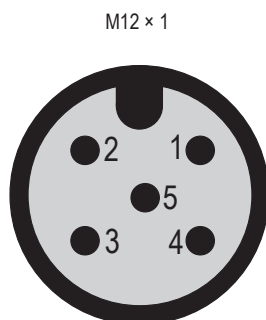
#### Drawing / 尺寸图



Legend / 图例:

- U1 Insertion length / 插入深度
- Φd Thermowell diameter / 探杆直径

#### Wiring diagram / 接线图



Pin / 针	Signal / 信号
1	Supply: U <sub>b</sub> + / 电源正
2	Switching output: S1 / 开关输出 : S1
3	Supply: 0V / 电源负
4	Switching output: S2 / 开关输出 : S2
5	S+ / 模拟量输出正

Technical Specification / 技术规范		
Measuring range 测量范围	-50 ... +150	[ °C ]
Measuring element 测量元件	Pt100	
Measuring element tolerance value per IEC 60751 根据 IEC 60751 测量元件公差值	Class B、Class A B 级、A 级	
Accuracy 精度	Pt100 + 0.1% of the temperature range Pt100 + 0.1% 测量范围	
Response time 响应时间	$t_{50} < 5$ 、 $t_{90} < 10$ (for sensor diameter 6 mm) $t_{50} < 5$ 、 $t_{90} < 10$ (适用于直径 6 毫米传感器)	[ S ]
Sensor diameter 探杆直径	6、8	[ mm ]
Sensor insertion length 传感器插入深度	50、100、150、200、250、300 (Max. 500)	[ mm ]
Fitting thread 螺纹连接	G1/2", G1/4" male thread (others on request) G1/2", G1/4" 外螺纹 (其他按要求提供)	
Tightening torque, recommended 拧紧扭矩, 推荐	20	[ Nm ]
Display 显示屏幕	5-digits-OLED-Display 5 位 OLED 显示屏	
Supply voltage 供电电压	12 ... 30	[ V DC ]
Analog output signal 模拟量输出信号	4 ... 20 mA, 2-wires 4 ... 20 mA, 2 线制	
Switch output signal 开关输出信号	Transistor: PNP、NPN 晶体管: PNP、NPN	
Switch power rating 开关额定负载	Max. 500 mA 最大 500 mA	[ mA ]
Reproducibility 重复性	$\leq \pm 0.05$	[ % F.S. ]
Ambient temperature 环境温度	-30 ... +80	[ °C ]
Storage temperature 储存温度	-40 ... +100	[ °C ]
Housing 外壳材质	Stainless Steel / 不锈钢	
Material of sensor tube 探杆材质	Stainless Steel / 不锈钢	
Electrical connection 电气连接	M12×1, 5-Pin M12×1, 5 针	
Reverse polarity and short circuit protection 反极性和短路保护	Yes / 带	
Protection degree 防护等级	IP65	

### Specification key / 规格代码

8840 -  -  -  -  -  -  -

Measuring range / 测量范围	
515	-50 ... 150 °C

Accuracy / 精度等级	
B	Class B / B 级
A	Class A / A 级

Sensor diameter / 探杆直径	
6	6 mm
8	8 mm

Sensor insertion length / 插入深度	
050	50 mm
100	100 mm
150	150 mm
200	200 mm
250	250 mm
300	300 mm

Factory preset / 出厂预设	
Z	no
Y	yes

Pressure fitting / 过程连接	
24	G1/2"
22	G1/4"

Output signal / 输出信号	
74	2 × PNP
77	1 × PNP + 4...20 mA
78	2 × PNP + 4...20 mA

### Sample:

**8840-515-B-6-100-78-24-Z**

Temperature Switch  
 Type: 8840  
 Measuring range: -50 ... 150 °C  
 Accuracy: Class B  
 Output signal: 2×PNP + 4 ... 20 mA  
 Power supply: 12 ... 30V DC  
 Material of housing: stainless steel  
 Material of stem: stainless steel  
 Sensor diameter: 6 mm  
 Sensor insertion length: 100 mm  
 Operating temperature: -30 ... +80°C  
 Pressure fitting: G1/2"  
 E-connection: M12×1, 5-Pin  
 Protection type: IP65

### 举例:

**8840-515-B-6-100-78-24-Z**

温度开关  
 型号: 8840  
 测量范围: -50 ... 150 °C  
 精度等级: B 级  
 输出信号: 2×PNP + 4 ... 20 mA  
 供电电压: 12 ... 30V DC  
 外壳材质: 不锈钢  
 探杆材质: 不锈钢  
 探杆直径: 6 mm  
 插入深度: 100 mm  
 介质温度: -30 ... +80°C  
 过程连接: G1/2"  
 电气连接: M12×1, 5 针  
 防护等级: IP65