

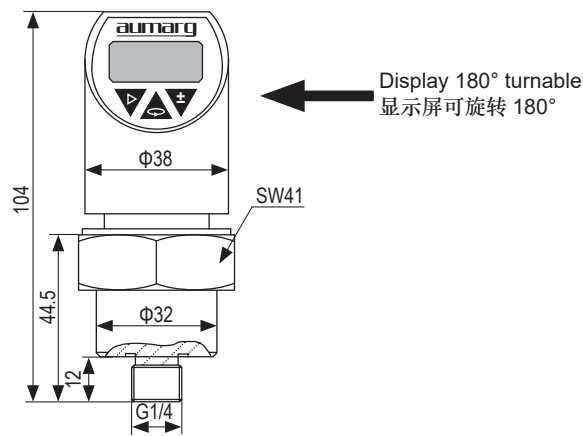


### Pressure Switch 压力开关

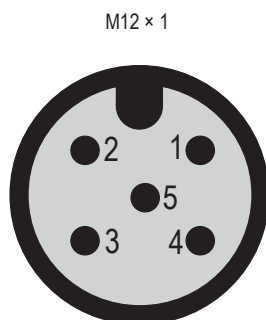
- Adjustment ranges from -1... 0 bar to 0 ... 1000 bar
- Switch output PNP, support switch action delay
- Configurable analogue output
- E-connection: M12×1, 5-Pin
- Max-memory
- Process connection G1/4 ", 1/4NPT and others

- 调整范围从 -1 ... 0 bar 到 0 ... 1000 bar
- 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 G1/4 "，1/4NPT 或其他

#### Drawing / 尺寸图



#### 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								
Pressure range 测量范围	-1...0	-1...0,6	-1...1,5	-1...3	-1...5	-1...9	-1...15	[ bar ]
Overload limit 过载极限	≤ 2	≤ 4	≤ 6	≤ 12	≤ 12	≤ 20	≤ 40	[ bar ]
Pressure range 测量范围	0 ... 0,1	0...0,16	0...0,25	0 ... 0,4	0 ... 0,6	0 ... 1	0 ... 1,6	[ bar ]
Overload limit 过载极限	≤ 1	≤ 1	≤ 1,75	≤ 1,75	≤ 1,75	≤ 2	≤ 4	[ bar ]
Pressure range 测量范围	0 ... 2,5	0 ... 4	0 ... 6	0 ... 10	0 ... 16	0 ... 25	0 ... 40	[ bar ]
Overload limit 过载极限	≤ 7	≤ 14	≤ 14	≤ 20	≤ 40	≤ 70	≤ 140	[ bar ]
Pressure range 测量范围	0 ... 60	0 ... 100	0 ... 160	0 ... 250	0 ... 400	0 ... 600	0...1000	[ bar ]
Overload limit 过载极限	≤ 140	≤ 300	≤ 400	≤ 700	≤ 1100	≤ 1100	≤ 1500	[ bar ]
Measuring principle 测量原理	piezoresistive / 压阻							
Units 单位	kPa、Mpa、Pa、bar、mbar、mmHg、Kgf/cm <sup>2</sup> 、mH <sub>2</sub> O、psi							
Display 显示屏幕	5-digits-OLED-Display 5 位 OLED 显示屏							
Supply voltage 供电电压	10 ... 36							[ V DC ]
Analog output signal 模拟量输出信号	4 ... 20 mA, 2-wires or 0 ... 10 V, 3-wires 4 ... 20 mA, 2 线制或 0 ... 10 V, 3 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 ]
Accuracy 精度	≤ ± 0.5、≤ ± 0.25							[ % ]
Stability (annual) 稳定性 (年)	≤ ± 0.3							[ % F.S. ]
Compensated temperature range 补偿温度范围	-10 ... 70							[ °C ]
Temperature error zero point 零点温度误差	≤ ± 0.02							[ % F.S./K ]
Temperature error range 量程温度误差	≤ ± 0.02							[ % F.S./K ]
Operating temperature 工作温度	-30 ... +80							[ °C ]
Storage temperature 储存温度	-40 ... +100							[ °C ]
Response time 响应时间	≤ 10							[ ms ]
Housing 外壳材质	Stainless Steel / 不锈钢							
Wetted parts 接触部件	Stainless Steel 316L, Sealing material 不锈钢 316L, 密封材料							
Fitting thread 过程连接	G1/4", 1/4NPT male thread (others on request) G1/4", 1/4NPT 外螺纹 (其他按要求提供)							
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							

# Series 8740 / 8740 系列

Pressure Switch / 压力开关

**aumarg**  
SENSORS & CONTROLS

## Specification key / 规格代码

8740 -  -  -  -

Measuring range / 测量范围	
16	-1 ... 0 bar
22	-1 ... 0 ... 0,6 bar
23	-1 ... 0 ... 1,5 bar
24	-1 ... 0 ... 3 bar
25	-1 ... 0 ... 5 bar
26	-1 ... 0 ... 9 bar
27	-1 ... 0 ... 15 bar
66	0 ... 0,1 bar
67	0 ... 0,16 bar
68	0 ... 0,25 bar
69	0 ... 0,4 bar
70	0 ... 0,6 bar
71	0 ... 1 bar
72	0 ... 1,6 bar
74	0 ... 2,5 bar
75	0 ... 4 bar
76	0 ... 6 bar
77	0 ... 10 bar
78	0 ... 16 bar
80	0 ... 25 bar
81	0 ... 40 bar
82	0 ... 60 bar
83	0 ... 100 bar
84	0 ... 160 bar
85	0 ... 250 bar
87	0 ... 400 bar
88	0 ... 600 bar
89	0 ... 1000 bar

Factory preset / 出厂预设	
Z	no
Y	yes

Pressure fitting / 过程连接	
12	G1/4" DIN 3852-E
32	1/4NPT

Output signal / 输出信号	
71	1 × PNP
74	2 × PNP
75	1 × PNP + 0...10 V
76	2 × PNP + 0...10 V
77	1 × PNP + 4...20 mA
78	2 × PNP + 4...20 mA

### Sample:

**8740-85-78-12-Z**

Pressure Switch  
Type: 8740  
Measuring range: 0 ... 250 bar  
Accuracy: 0,5%  
Output signal: 2×PNP + 4 ... 20 mA  
Power supply: 10 ... 36V DC  
Material of housing: stainless steel  
Wetted parts: stainless steel 316L  
Operating temperature: -30 ... +80°C  
Pressure fitting: G1/4" DIN 3852-E  
E-connection: M12×1, 5-Pin  
Protection type: IP65

### 举例:

**8740-85-78-12-Z**

压力开关  
型号: 8740  
测量范围: 0 ... 250 bar  
精度等级: 0,5%  
输出信号: 2×PNP + 4 ... 20 mA  
供电电压: 10 ... 36V DC  
外壳材质: 不锈钢  
接液材质: 不锈钢 316L  
介质温度: -30 ... +80°C  
过程连接: G1/4" DIN 3852-E  
电气连接: M12×1, 5 针  
防护等级: IP65