

# 提夫自控技术（上海）有限公司

## 轮辐式称重传感器TMS



- 可选量程范围：0.3t 到 30t
- 输出信号：毫伏
- 受力方式：单向承压或称重

- Measuring Range  
0.3t upto 30t
- Output: mV
- Compression/Weighing

### 技术指标 Technical Specification

|                                             |                          |                                 |
|---------------------------------------------|--------------------------|---------------------------------|
| 可选量程<br>Measuring range                     | 0.3、0.5、1、2、3、5、10、20、30 | (t)                             |
| 安全过载<br>Service load                        | 150                      | (% F. S. )                      |
| 极限过载<br>Limit load                          | 200                      | (% F. S. )                      |
| 零点输出<br>Zero signal tolerance               | $<\pm 1$                 | (% F. S. )                      |
| 线性<br>Linearity                             | $<\pm 0.03$              | (% F. S. )                      |
| 重复性<br>Repeatability                        | $<\pm 0.03$              | (% F. S. )                      |
| 蠕变(30分钟)<br>Creep error (30 min)            | $<\pm 0.03$              | (% F. S. )                      |
| 滞后<br>Hysteresis                            | $<\pm 0.03$              | (% F. S. )                      |
| 响应时间<br>Response time                       | $<1$                     | (ms)                            |
| 灵敏度温度系数<br>Temp. coefficient of sensitivity | $<0.015$                 | (% F. S. / $^{\circ}\text{C}$ ) |
| 零点温度系数<br>Temp. coefficient of zero blance  | $<0.03$                  | (% F. S. / $^{\circ}\text{C}$ ) |
| 抗偏载能力<br>Limit lateral load                 | 10                       | (% F. S. )                      |
| 额定负载形变<br>Rated displacement                | 0.5                      | (mm)                            |

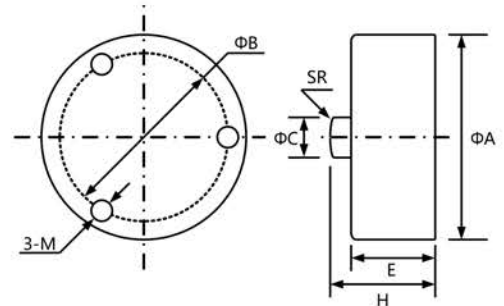
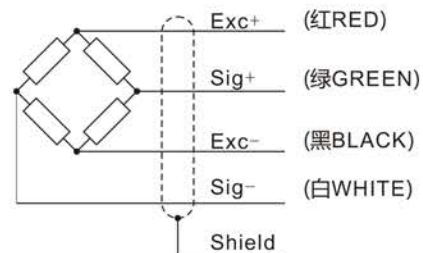
### 电气特性 Electrical Specification

|                                                 |              |               |
|-------------------------------------------------|--------------|---------------|
| 推荐激励电压<br>Excitation voltage recommended        | 5 ~ 10       | (V)           |
| 最大激励电压<br>Max. excitation voltage               | 15           | (V)           |
| 输入阻抗<br>Input resistance                        | $410 \pm 15$ | ( $\Omega$ )  |
| 输出阻抗<br>Output resistance                       | $350 \pm 5$  | ( $\Omega$ )  |
| 绝缘电阻(直流500V)<br>Insulation resistance (@500VDC) | $>5000$      | (M $\Omega$ ) |

### 环境条件 Environments

|                               |          |                        |
|-------------------------------|----------|------------------------|
| 工作温度<br>Operation temperature | -30 ~ 65 | ( $^{\circ}\text{C}$ ) |
| 储存温度<br>Storage temperature   | -40 ~ 85 | ( $^{\circ}\text{C}$ ) |
| 相对湿度<br>Rel. humidity         | 95       | (% r. H. )             |

### 接线示意图 Wiring Guide



| 额定载荷<br>(t) | 传感器对应尺寸 (单位: mm $\pm 1$ mm) |    |    |    |     |    |    |
|-------------|-----------------------------|----|----|----|-----|----|----|
|             | ΦA                          | ΦB | ΦC | SR | M   | H  | E  |
| 0.3-1       | 78                          | 64 | 15 | 40 | M6  | 40 | 32 |
| 2-10        | 82                          | 66 | 22 | 50 | M8  | 44 | 32 |
| 15-30       | 127                         | 90 | 25 | 60 | M10 | 70 | 62 |

### 安装方式 Working Diagram

