

产品介绍/Product Description

RAT880 角位移传感器采用霍尔芯片，通过滤波补偿、非线性校正、温度补偿等技术保证传感器在各种恶劣工况下仍然保持极高的安全性能。该产品采用耐久性设计，结构紧凑，便于安装，可靠性高。RAT880 角位移传感器适用于工程机械、消防机械、农业机械、船舶、仪器仪表、工厂自动化等领域。

RAT880 Angle displacement sensor adopts Hall chip, through filter compensation, nonlinear correction, temperature compensation and other technologies to ensure that the sensor still maintains extremely high safety performance in a variety of harsh working conditions. The product adopts durability design, compact structure, easy to install and high reliability. RAT880 Angular displacement sensor is suitable for construction machinery, fire machinery, agricultural machinery, ships, instrumentation, factory automation and other fields.

产品特点 Product Features



- ★能够适应各种恶劣工况/Ability to adapt to a variety of harsh working conditions
- ★结构紧凑，耐久性强/Compact structure, strong durability
- ★安装便捷，可靠性强/Convenient installation, strong reliability

性能参数/ performance parameter

描述/Description	技术参数/technical parameters
工作电压/working voltage	10~36V DC
工作温度/operating temperature	- 40℃ ~ + 85℃
存储温度/storage temperature	- 40℃ ~ + 85℃
测角量程/ Angle measurement range	-180°~+180°, -72.5°~+72.5°
输出信号/output signal	4~20mA
分辨率/resolution ratio	12bit
非线性度/Non-linearity	≤±0.2%
综合精度/Comprehensive accuracy	≤±0.25%
两路输入误差/Two-way input error	≤±2%
输入轴直径/Input axis diameter	电缆
轴向承受荷载/Axial bearing load	≤70N
径向承受荷载/Radial bearing load	≤250N
防护等级/protection level	IP67



Technical drawing of a mechanical part, showing front and side views with dimensions.

Front View (Top):

- Overall width: $\phi 43$
- Top hole diameter: $\phi 12 e7 \begin{pmatrix} -0.032 \\ -0.050 \end{pmatrix}$
- Top hole depth: 16.5 (14.4)
- Overall height: 70.9
- Bottom hole diameter: $\phi 88^0_{-0.2}$
- Bottom hole depth: 18
- Internal features: A vertical slot with a width of 15 and a depth of 25. A horizontal slot with a width of 10 and a depth of 11.
- Right side view arrow: 右侧

Side View (Bottom):

- Overall width: $\phi 18$
- Top hole diameter: $\phi 4.2^{+0.1}_0$
- Top hole depth: 7.9
- Overall height: 1.9
- Internal features: A vertical slot with a width of 10 and a depth of 11. A horizontal slot with a width of 10 and a depth of 11.
- Right side view arrow: 右侧