

**METIRIO® A1****METIRIO®**

A1专为即插即用应用设计，配备电缆、连接器和安装螺纹，确保与闭环运动系统的连接。

特氟龙电缆支持真空应用场景，其微小的静态弯曲半径使其能在极端狭窄环境中灵活部署。

METIRIO® A1读取头采用D-SUB

15公头接口，提供差分模拟信号及I2C接口引脚。该接口还可扩展安装插值模块，该模块提供BiSS-C接口及标准ABZ信号输出。

尺寸：17 x 10 x 4 毫米

	Key Benefits
Compact Size [mm]	17 x 10 x 4
Low Current Consumption [mA]	20
Position Resolution [nm]	0.4 (@ 20 mm/s)
High Speed [m/s]	10
Central Wavelength [nm]	850 (Invisible)
	Electrical Data
Supply Voltage VDD [V]	3 to 5.5
Output Position Signal (sine) [Vpp]	1
Output Reference Signal (square) [VDD]	RS485
Bandwidth (f3dB) [kHz]	500
ESD Susceptibility (HBM) [kV]	4 at each pin
Startup Time [μs]	150
Digital Interface	TWI
	Environment
UHV compatibility [mbar]	HV (1E-6 mbar); UHV (1E-11 mbar)
Maximum bake-out temperature [°C]	150
Operating temperature range [°C]	0 - 80
Humidity (40 °C) [%]	80 non-condensing
Vibration EN 60068-2-6	500 m/s ² , 2000 Hz
Shock EN 60068-2-27	1000 m/s ² , 11 ms
	Scale Compatibility

Grating Type	reflective
Scale Pitch [μm]	20
Scale Type	linear, convex, rotary (down to 12 mm diameter)
Allowed Working Distances [mm]	1.2 mm (standard)
	General
Weight [g]	1.1