



METIRIO® 2D

METIRIO® 2D是一款创新且易于使用的二维增量式光学编码器。凭借其纳米级分辨率和高带宽特性，METIRIO® 2D可实现超精确的二维运动控制——特别适用于需要实时监测并修正运动轴上微小偏差的应用场景。轻量化铝制结构兼具坚固性，专为紧凑集成至外部系统而优化。配套安装适配器与螺钉可实现零占位扩展。定制电缆严格遵循UL AWM Style 20963标准制造，确保满足拖链兼容性等最高行业标准。

METIRIO® 2D读取头配备D-SUB 15公头连接器，提供差分模拟信号及I2C接口引脚。可选插值模块提供BiSS-C接口和典型ABZ正交信号。其电气与光学规格均与基础款METIRIO读取头保持一致。尺寸：26.3×15.1×6.2 毫米

	Key Benefits
Compact Size [mm]	15.0 x 11.2 x 6.2
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
Operating temperature range [°C]	0 - 80
Humidity (40 °C) [%]	80 non-condensing
Vibration EN 60068-2-6	500 m/s2, 2000 Hz
Shock EN 60068-2-27	1000 m/s2, 11 ms

	Scale Compatibility
Grating Type	reflective
Scale Pitch [μm]	20
Scale Type	2D, grid type
Allowed Working Distances [mm]	1.2 mm (standard)
	General
Weight [g]	1.1