

METIRIO® A1

METIRIO® A1, primed for plug and play applications, is equipped with cable, connector and mounting threads to ensure connectivity to closed loop motion systems.
The Teflon cable enables vacuum applications and, in addition, its small static bending radius allows it to be used in very confined environments.
The A1 version of the **METIRIO**® Readhead is terminated with a D-SUB 15 male connector, providing differential analog signals and I2C-Interface pins. An interpolation module can be also attached to the A1 plug. This module provides BiSS-C Interface and typical ABZ-signals. **METIRIO**® A1, primed for vacuum applications, equipped with teflon cable, connector and mounting threads. Dimensions: 17 x 10 x 4 mm

	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/s2, 2000 Hz

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Shock EN 60068-2-27	1000 m/s2, 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

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