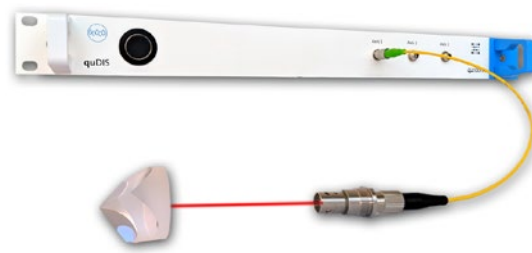




quDIS

Interferometric distance measurement



Key Features

- Signal stability < 0.05 nm
- 20 ... 1400 mm working distance
- 25 kHz bandwidth
- 1 m/s target speed
- 3 sensor axes, multiple devices

Applications

- Interferometric distance measurement
- Beam interrupt compensation
- Vibration analysis
- Angular measurement
- Environment analysis

quDIS Specifications

Sensor	
Sensor axes	3
Working distance * ¹	20 ... 1400 mm
Resolution	1 pm
Signal stability * ²	< 0.05 nm
Bandwidth	25 kHz
Max. target velocity	1 m/s
Fiber input connectors	FC/APC Mating Sleeves
Interferometer	
Laser source	DFB laser (class 1)
Laser power	< 400 μW
Wavelength (IR)	1 535 nm
Laser linewidth	<5 MHz
Alignment Laser * ³	
Laser source	Fiber-coupled diode
Laser power	< 1 mW
Wavelength	650 nm
Interfaces * ³	
PC interface	USB 3.0
Digital out	AquadB & HSSL
Connector	HDMI
Signal levels AquadB / HSSL	LVTTTL / LVDS

Operation	
Operating systems	Windows, Linux
Supplied software	GUI, DLL, LabView, Python, Command line
Alignment support	Numerical, graphical
Hardware	
Dimensions	440 x 350 x 50 mm
Weight	4 kg
Power consumption	< 30 W, at 90 to 264 VAC

AMU - Ambient measurement unit * ³	
Dimensions	38 mm x Ø58 mm
Connector	RJ45
Cable length	4 m
Weight	75 g
Sampling rate	10 Hz
Temperature	±0.1°C (-5 ... 50°C)
Pressure	±1 hPa (300 ... 1100 hPa, 0 ... 65°C)
Relative humidity	± 2 % (10... 90% RH, 5... 55°C)
AMU accuracy	±1 ppm

*1: sensor head dependent *2: RMS@ 100Hz, 2s, 200mm *3: optional available

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