### Technical Specifications

#### Sensor
- **measurement bandwidth**: 10 MHz
- **signal stability (WD: 77 mm)**: 0.110 nm (2 s)
- **number of sensor axes**: 3
- **working distance**: 0...5000 mm (depending on sensor head)
- **sensor resolution [pm]**: 1
- **sensor repeatability**: 2 nm (at 10 mm working distance in vacuum conditions)
- **max. target velocity [m/s]**: 2

#### Controller Hardware
- **power supply**: 12 VDC
- **power consumption [W]**: 8
- **laser source (measurement laser)**: DFB laser (class1)
- **laser output power (measurement laser) [µW]**: max. 400
- **laser wavelength (measurement laser) [nm]**: 1530
- **laser source (alignment laser)**: fiber-coupled laser diode
- **laser output power (alignment laser) [mW]**: < 1
- **laser wavelength (alignment laser) [nm]**: 650
- **chassis**: 55 x 52 x 195 mm³
- **weight**: 730 g

#### Modes of Operation
- **measurement mode**: displacement
- **remote operation**: integrated webserver
- **output signal: displacement measurement**: laser light (IR)
- **output signal: alignment laser**: laser light (VIS)
- **sensor alignment**: via integrated webserver
- **sensor initialization**: via integrated webserver
- **factory resetable**: via GPIO connector

#### Accessories
- **Accessories**: IDSH sensor heads, IDSECU, IDSMF single mode fibers, FVFT vacuum feedthroughs

#### Working Conditions
- **controller**: ambient conditions
- **sensor heads**: depending specifications
- **ECU**: ambient conditions

#### Software Drivers
- **web browser**: no software drivers necessary as all functionality is accessible via Ethernet and C#-DLLs

#### Interfaces
- **analog interfaces**: sin/cos (real time), linear analog (real time, optional)
- **digital interfaces**: AquadB, HSSL (real time)
- **interface bandwidth sin/cos [MHz]**: up to 25
- **interface bandwidth field bus systems**: depending on field bus system
- **resolution sin/cos (inc.)**: freely assignable; 1 pm - 2^24 pm
- **resolution AquadB (inc.)**: freely assignable
- **resolution HSSL (abs.) [bit]**: 8 - 48
- **resolution field bus systems**: depending on implemented protocol

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