

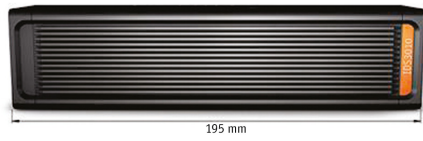
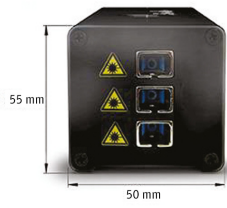
Displacement Measuring Interferometer

1010623



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)	DFBlaser (class1)
laser output power (measurement laser) [μ W]	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 mm ³
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 resettable	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



- ① GPID (General Purpose Input/Output)
- ② Main Power
- ③ Ethernet
- ④ Real-Time Interfaces
- ⑤ ECU
- ⑥ CanOPEN