

SPECTRAL CONFOCAL DISPLACEMENT SENSOR

PMS-SFS-C8000 SERIES

Available For All Materials - More Accurate And Stable Measurements-Full Range Of Application Solutions.



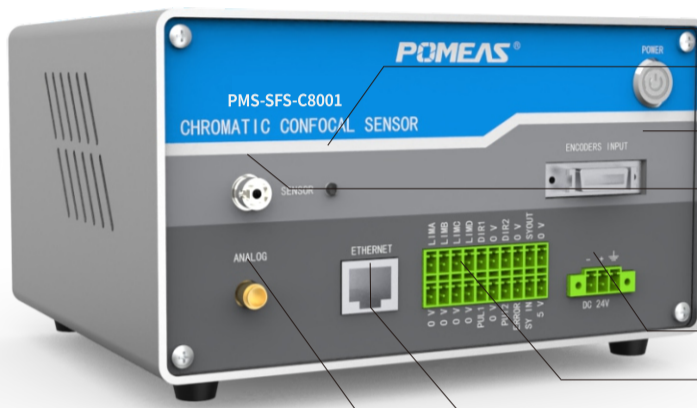
Controller Functions

- ◆ Support 3D surface topography measurement
- ◆ Non-transparent sample thickness measurement
- ◆ Support analog output
- ◆ Independent dual fiber optic channels to support 2 probe measurements at the same time.

Controller Advantage

- ◆ Rich application functions, support a variety of measurement modes, can be equipped with full-featured PC measurement software
- ◆ Excellent optical design, linearity is better than the market similar.
- ◆ Split-axis encoder position locking, fast response speed and high accuracy.
- ◆ Support multi-channel, one with a number of probes, reduce costs.

Controller Features



- Power Switch
- Status Light
- Three-Axis Encoder Interface
- Optical Interface
- 24V Power Port
- I/O Interface
- Ethernet Interface
- Analog Interface

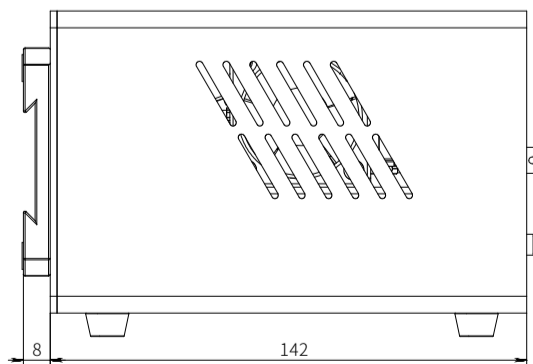
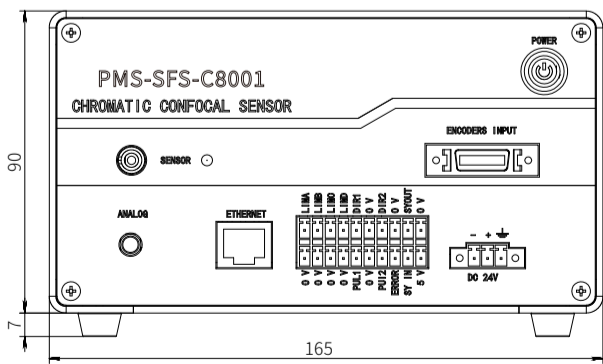
Controller Features

- ◆ Dual-channel
- ◆ XYZ grating
- ◆ Support sweep point cloud
- ◆ Alignment Thickness Measurement
- ◆ Analog output (seamless piezoelectric actuation)
- ◆ Support 1~2 way motor trapezoidal acceleration and deceleration control.

Parameter Introduction

Model	PMS-C8001	PMS-C8001D
Light Source	White LED	White LED
Number Of Channels	1	1 or 2
Acquisition Frequency	≤3.5KHZ	≤3.5KHZ
Measurement Range	Full	Full
Number Of Calibration Tables	100	100
Distance Measurement	First/Second/Third/Fourth/Most Peak	First/Second/Third/Fourth/Most Peak
Thickness Measurement	2 peaks	2 peaks
Advanced Functions	Auto LED/Set Exposure Time/Encoder Trigger	Auto LED/Set Exposure Time/Encoder Trigger
Communication Interfaces	Ethernet (GigE)	Ethernet (GigE)
Synchronized Signals	1 TTL input, 1 TTL output	1 TTL input, 1 TTL output
Other Inputs/outputs	1 analog output/3 encoder outputs	2 analog outputs/3 encoder outputs
Fiber Optic Connection	E2000/APC	E2000/APC
Operating Temperature	5°C-50°C	5°C-50°C
Storage Temperature	-20°C-70°C	-20°C-70°C
Relative Humidity	5%-80% HR Non-condensing	5%-80% HR Non-condensing
Protection Class	Ip40	Ip40
Conforms To Standards	EN 61326-1	EN 61326-1
Power Supply	24 vdc	24 vdc
Maximum/rated Power	25W/15W	25W/15W
Dimension(Lxhx D)mm	165*100*150	185*100*150
Weight	1.2KG	1.4KG

Controller Dimension Drawing



Unit mm	Ratio 1:1	Model	PMS-SFS-C8001
Angle On Sth		Name	Spectrum Controller
		Date	2024.07.08

