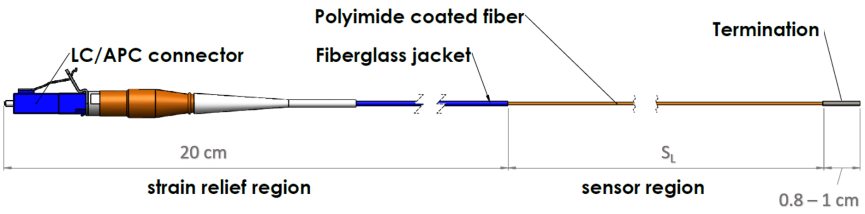
HD Strain Sensors

High-Definition Fiber Optic Strain Sensors

Luna's high-definition (HD) strain sensors are low-profile, flexible sensors for use with the ODiSI measurement system for ultra-high resolution strain measurements with gage pitches down to 0.65 mm. HD sensors are supplied with NIST-traceable calibration coefficients and a unique key ID that enables plug-and-play identification and operation.



KEY FEATURES

- Low profile for embedded or surface applications
- Flexible, polyimide coated fiber
- NIST-traceable calibration
- Included sensor key enables plug-and-play operation

PARAMETER	SPECIFICATIONS	UNITS
Fiber type	Polyimide coated low bend loss fiber	–
Strain Relief	20 cm, fiberglass	–
Sensor termination	Standard 220 °C sensor: 1 cm, 304 stainless steel	–
	High temp. 300 °C sensor: 0.8 cm, glass	–
Sensor diameter	155	µm
Termination diameter	286	µm
Minimum bend radius	10	mm
Operating temperature - sensing region	-40 to 220 or -40 to 300	°C
Operating temperature - connector	-60 to 150	°C

ORDERING

Part Number	Description
HD6SxxLCyyyP	High-definition (HD) strain sensor, with reference calibration key files
xx	Sensor length S_L (m): 01, 02, 03, 05, 10, 15, 20, 30, 40 or 50
yyy	Maximum sensor temperature (°C): 220 or 300

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*Specifications subject to change without notice.