

SPECIFICATIONS

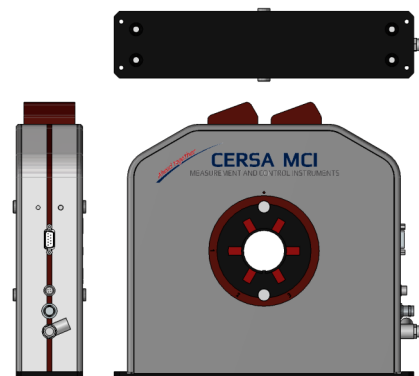
LPS Laser Projection Sensor

The **LPS-H** is designed for **high speed** diameter measurement for tubes, cables, wires.

Its measurement principle is based on the laser projection (shadow), position and vibration independent, **no averaging required**.

All-in-one device:

- * Diameter measurement
- * Ovality measurement
- * Lump and neck-down detection



PRODUCT		LPS005-3-H
Performances (traceable calibration to international standards - NIST and METAS)		
Measurement window	Disk diameter	7.0 mm
OD measurement	Number of measurement axis	3
	Diameter range	0.3 - 5.0 mm
	Uncertainty ¹ / Repeatability	+/- 0.007 mm
	Measurement rate	20 000 measurements/sec
Lump & Neck-down detection	Min fault height	0.014 mm
	Min fault length	0.160mm @ 200 m/min
X&Y position measurement	Range	+/-3.5 mm
	Uncertainty	+/-0.05 mm
Communications		
Serial RS232 (SUB-D 9 pins)	Baudrate	38400 to 115200 (user configurable)
Digital I/O (option)	Digital output (open collectors)	2 (or 1 if length reset input is used)
	Digital input	2
Analogic output (option)	BNC	1 (for diameter control)
	Type	Voltage (+/-4V) OR Current (0-20mA or 4-20mA)
Display/keyboard (options)	Display	7 segments 4 digits LED display
	Keyboard	3 boutons
Environmental & general data		
Temperature	Ambient T°	10 - 40°C
	Max internal T° ²	55°C
	Storage T°	0 - 60°C
Light source	Type	LED
Power	Power supply	24Vdc 20W mini
Dimensions	Dimensions (LxWxH)	267 x 65 x 270 mm
	Weight	3.62 kg

Remarks:

¹ includes slow ambient temperature fluctuation within 10-40°C and wire moves within the measurement window

² provide air flow of 5 to 20l/min to clean the optics and cool down the electronic

Technical data are subject to change without notice