

MiniVLS nL Series Optical Speed/Phase Sensors VLS nL

General features

These Sensors are primarily designed for Phase related rotational speed applications, including very high speed monitoring and are available with either Laser or Red LED light sources.

The MiniVLS nL Sensors are designed for use in hazardous areas with certified hazardous area equipment.

Ideally suited for Condition Monitoring Data collectors in balancing applications these sensors give excellent performance with repeatable results.

Engineered for easy mounting in either a Proximity Sensor style Threaded housing with two lock nuts supplied or in Plain housing versions, an optional mounting bracket is available with tripod fixing option. Ideal for permanent fixing or hand held applications.

Condition Monitoring Application

Ideal where phase & speed monitoring is required in vibration monitoring & balancing applications on rotating machinery.

Optical Ranges

Laser models measure at up to 2 metres and LED versions up to 1 metre from a reflective marker.

Key Features

- Operating frequency up to 250,000 rpm
- Long optical range up to 2 metres
- Wide angle of operation - up to 80deg
- On Target indicator standard
- Protection rating IP67
- Integral Connector
- Stainless Steel housing
- Threaded or Plain housing options
- Reverse polarity & short circuit protected

General Specification

Laser Models

Laser Optical Range	100 - 2000mm
Angle of incidence	+/- 80 deg
LED Optical range	up to 1 metre
LED version	+/- 45 deg
Speed range	0.1 - 250,000rpm
Power input	5vdc @ 30 ma typically
Operating Temp.	-10 - +40 deg C
IP rating	IP67
Housing types	M20 threaded or 5/8" UNC or Plain body + fixing slots
Material	Stainless steel
Connections	Integral Connector
Cables	Several options
Dimensions	Laser - D 20mm x L 70mm LED - D20mm x L85mm



Optional mounting bracket for tripod or fixed mounting of plain body version of MiniVLS

Order Code: MVLS-BR1 Mounting Bracket (plain housing Sensor)

Order codes	Description
Threaded Bodies	
Mini VLS 111/N	Laser Sensor - Threaded
Mini VLS 121/N	LED Sensor - Threaded
Plain Bodies	
Mini VLS 211/N	Laser Sensor - Plain
Mini VLS 221/N	LED Sensor - Plain

Mating connectors & cables must be ordered separately for the MiniVLS Sensors

Mini VLS Connector & Cable options	
MVLS-1	Inline Connector
MVLS-2	2m Cable & Moulded Connector
MVLS-3	90° Connector
MVLS-4	2m Cable & 90° Plug
MVLS-6	Bracket for Mini VLS Sensors

Variants can be supplied on request