

MiniVLS Series Laser Optical Speed Sensors

MiniVLS

General Features

The MiniVLS series Optical Sensors are primarily designed for speed related applications, including very high speed monitoring.

These high quality Sensors are housed in rugged stainless steel enclosures which are sealed to IP67 standard. They are engineered for easy mounting in either a proximity Sensor style housing or Plain version with grooved body which is designed to be used either hand held or with an optional mounting bracket which can be tripod mounted or fixed to a machine surface. They can be used with almost any pulse input monitoring equipment such as Digital Tachometers, Counters & rotation monitoring products, data collectors, including portable, panel mounted and bench style instruments. They are also compatible with most Condition Monitoring products.

Automotive Applications

Widely used for research & development and test applications.

Condition Monitoring Application

Ideal for phase & speed monitoring balancing applications on rotating machinery.

Optical Ranges

Laser models measure at up to 2 metres with reflective tape or longer with retro-reflectors or special configurations.

Key Features

- Operating frequency up to 250,000 rpm
- Long optical range up to 2 metres
- Wide angle of operation - up to 80°
- On target indicator standard
- Integral connector
- Stainless steel housing
- Threaded or Plain housing options
- Reverse polarity & short circuit protected

General Specification

Optical range	100 - 2000mm
Angle of incidence	+/- 80°
Speed range	0.1 - 250,000rpm
Power input	5vdc or 8-24vdc versions @ 30 mA typically
Signal Input	NPN open collector
On Targ. Ind	Yes
Operating temp.	-10 - +40°C
IP rating	IP67
Housing types	M20 threaded or Plain body + fixing slots
Connections	Integral connector
Cables	Several options
Dimensions	D 20mm x L 70mm



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

Order code: **MVLS-BR1** Mounting Bracket (plain housing sensor)

Order Code	Description
Threaded Bodies	
Mini VLS 111	Laser Sensor 5v - Threaded
Mini VLS 112	LSR Sensor 8-24vdc - Threaded
Mini VLS 113	LSR Sensor 6-12vdc - Threaded
Plain Bodies	
Mini VLS 211	LSR Sensor 5vdc - Plain
Mini VLS 212	LSR Sensor 8-24vdc - Plain
Mini VLS 213	LSR Sensor 6-12vdc - Plain