

## 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<br>@ 30 mA typically        |
| Signal Input       | NPN open collector                                   |
| On Targ. Ind       | Yes                                                  |
| Operating temp.    | -10 - +50°C                                          |
| IP rating          | IP67                                                 |
| Housing types      | M20 X 1.5mm threaded or<br>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                   |
|------------------------|-------------------------------|
| <b>Threaded Bodies</b> |                               |
| <b>Mini VLS 111</b>    | Laser Sensor 5v - Threaded    |
| <b>Mini VLS 112</b>    | LSR Sensor 8-24vdc - Threaded |
| <b>Mini VLS 113</b>    | LSR Sensor 6-12vdc - Threaded |
| <b>Plain Bodies</b>    |                               |
| <b>Mini VLS 211</b>    | LSR Sensor 5vdc - Plain       |
| <b>Mini VLS 212</b>    | LSR Sensor 8-24vdc - Plain    |
| <b>Mini VLS 213</b>    | LSR Sensor 6-12vdc - Plain    |