

VLS Series optical sensors - standard models

General Specification

Optical range standard	50mm - 2 metre (1 metre Visible light version)
Overall speed range	0 - 250,000 rpm (With Lens adaptor at high speed)
Optical angle	Up to +/- 80 deg (45 deg visible light version)
Lens	Double lens reflex
Light sources	Visible light 5vdc minilamp - typical 2,000hrs Laser Beam CLASS II
Power requirements	VLS5/versions = 120mA@5vdc (Laser max. 85mA)
Operating temperatures	-10 to +70 deg C
Dimensions	L 130mm x D 34mm
Connections	Various cable & connector options

Accessories

Type DP/MB - "D" style mounting bracket

Type MB/LH - Vice grip clamp with swivel bracket

Type LSAB/2 - Contact adaptor - rpm & linear speed

Type LN1 - Clip-on Lens gives high intensity focused spot fits all sensors, suitable for high speed, small diameter shafts

Power and light source	Code	Application	Optical Range	Optical Angle +/-	Speed range Max	Cable	Connection method	Lens Adaptor option	Contact adaptor option	Special features
Visible 5v minilamp	VLS5/J	Hand Tachometer	1 Metre	45 deg	100,000rpm	1 Coiled extended	3.5mm Stereo Jack	Yes	Yes	
Visible 5v minilamp	VLS5/D	Bench Tachometer	1 metre	45 deg	100,000rpm	1.5m	5 Pin DIN 180 deg.	Yes	Yes	
Visible 5v minilamp	VLS5/T	Panel Tachometer	1 metre	45 deg	100,000rpm	1.5m	None	Yes	Yes	
Visible 7-40v minilamp	VLS7/D	General purpose	1 Metre	45 deg	100,000rpm	1.5m	5 pin DIN	Yes	Yes	
Visible 7-40v minilamp	VLS7/T	General purpose	1 Metre	45 deg	100,000rpm	1.5m	Wire ends	Yes	Yes	
Laser Models										
5vdc Laser Red spot	VLS5/J/LSR	Hand Tachometer	2 Metre	80 deg	250,000rpm	1m coiled extended	3.5mm plug	Yes	No	
5vdc Laser Red spot	VLS5/D/LSR	General purpose	2 Metre	80 deg	250,000rpm	1.5m	5 pin DIN	Yes	No	
5vdc Laser Red spot	VLS5/T/LSR	Panel Tachometer	2 Metre	80 deg	250,000rpm	1.5m	Wire ends	Yes	No	
7-40v Laser Red spot	VLS7/T/LSR	General purpose	2 Metre	80 deg	250,000rpm	1.5m	Wire ends	Yes	No	
7-40v Laser Red spot	VLS7/D/LSR	General purpose	2 Metre	80 deg	250,000rpm	1.5m	5 pin DIN	Yes	No	
Condition Monitoring Models										
Red LED	VLS/DA	datalogging	0.5m	45 deg	10,000	1.5m	not fitted	Yes	Yes	analogue output 0-3vdc
5vdc Laser	VLS5/D/LSR/DI	Vibration monitoring	2m	80 deg.	100,000	1.5m	entek/di plug	Yes	no	