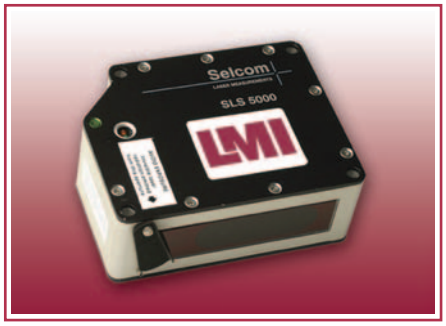
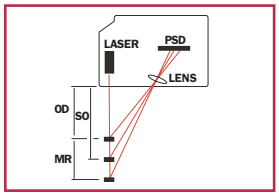
Product Information

Selcom™ SENSORS THAT SEE™ SLS 5000





High Frequency and Accuracy, Advanced Signal Filtering and Built for Hostile Environments

- High speed PSD-based triangulation principle
- Sophisticated fast automatic light control for varying surfaces
- Designed for high accuracy measurements on difficult target materials; most flexible sensor available
- Resolutions to 0.15 microns
- Analog and digital outputs
- Rugged industrial packaging
- Internal processor for application software e.g. Seam Finding, Radial Runout, Texture Adjustment, Encoder Trigger Software
- Ideal for general purpose applications

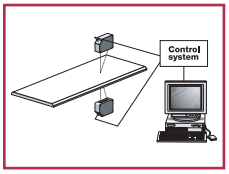
Options & Accessories

- Onboard processor for application software
- Heat shield and air purge system
- +24 VDC power supply unit
- Smart sensor Software Inside technology for OEM's

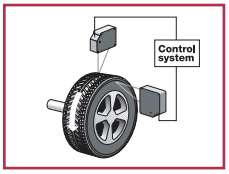
Technical Specification

Model Number		Measurement Range (MR)	Stand Off (SO)	Offset Distance (OD)	Resolution (Worst Case) Note 1	Resolution (Typical) Note 2	Linearity	Triangulation Angle at SO	Spot Size at SO
SLS 5006/50	mm	6	50	47	0.0015	0.00015	0.003	36 deg.	0.07
	in.	0.24	1.97	1.85	0.00006	0.000006	0.00012		0.003
SLS 5020/50	mm	20	50	40	0.005	0.0005	0.010	36 deg.	0.07
	in.	0.79	1.97	1.57	0.0002	0.00002	0.00039		0.003
SLS 5010/100	mm	10	100	95	0.0025	0.00025	0.005	27 deg.	0.12
	in.	0.39	3.94	3.74	0.0001	0.00001	0.0002		0.005
SLS 5020/100	mm	20	100	90	0.005	0.0005	0.010	27 deg.	0.12
	in.	0.79	3.94	3.54	0.0002	0.00002	0.0004		0.005
SLS 5035/100	mm	35	100	82.5	0.0088	0.00088	0.018	27 deg.	0.12
	in.	1.38	3.94	3.25	0.00034	0.000034	0.0007		0.005
SLS 5035/200	mm	35	200	182.5	0.0088	0.00088	0.018	18 deg.	0.25
	in.	1.38	7.87	7.19	0.00034	0.000034	0.0007		0.01
SLS 5070/200	mm	70	200	165	0.0175	0.00175	0.035	18 deg.	0.25
	in.	2.76	7.87	6.50	0.0007	0.00007	0.0014		0.01
SLS 5100/200	mm	100	200	150	0.025	0.0025	0.050	18 deg.	0.25
	in.	3.94	7.87	5.91	0.001	0.0001	0.002		0.01
SLS 5070/300	mm	70	300	265	0.02	0.002	0.035	13 deg.	0.3
	in.	2.76	11.81	10.4	0.001	0.0001	0.0014		0.012
SLS 5150/300	mm	150	300	225	0.04	0.004	0.075	13 deg.	0.3
	in.	5.91	11.81	8.86	0.001	0.0001	0.003		0.012
SLS 5200/300	mm	200	300	200	0.05	0.005	0.100	13 deg.	0.3
	in.	7.87	11.81	7.87	0.002	0.0002	0.0039		0.012
SLS 5325/400	mm	325	400	237.5	0.08	0.008	0.163	10 deg.	0.5
	in.	12.8	15.75	9.35	0.0032	0.00032	0.0064		0.02
SLS 5400/450	mm	400	450	250	0.10	0.010	0.200	9 deg.	0.6
	in.	15.7	17.72	9.84	0.0039	0.00039	0.0075		0.02
SLS 5750/600	mm	750	600	225	0.19	0.019	0.375	7 deg.	0.8
	in.	29.5	23.62	8.86	0.0074	0.00074	0.0148		0.03
SLS 51000/1250	mm	1000	1250	750	0.25	0.025	0.500	3 deg.	1.0
	in.	39.4	49.21	29.53	0.0098	0.00098	0.0197		0.04

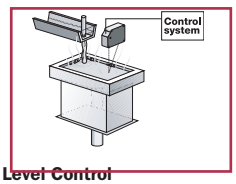
Note 1: Worst Case Resolution - at full bandwidth.
Note 2: Typical Resolution - at 128 sample averaging.



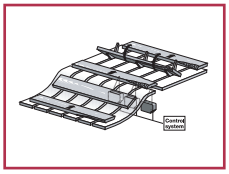
Thickness Profiling

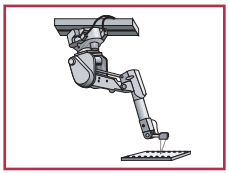


Tire Measurement



Level Control


Wane Detection


Seam Finding

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