

TECHNICAL SPECIFICATION

Model	ILM R/R (L)				ILM T/T (L)				ILM S/S (L)			ILM D/D (L)
Module Type	35	150	500	1500	35	150	500	1500	150	500	1500	35/150/500
Laser												Programmable
Typical Wavelength (nm)	905	905	905	905	905	905	905	905	905	905	905	905
Beam Divergence (mrad)	2.5 x 0.2	2.5 x 0.2	2.0 x 0.1	2.25 x 0.15	2.5 x 0.2	2.5 x 0.2	2.0 x 0.1	2.25 x 0.15	2.5 x 0.2	2.0 x 0.1	2.25 x 0.15	↑
Reflectorless Range (m)	0.3 - 35	0.5 - 150	1 - 500	3 - 1500	0.3 - 35	0.5 - 150	1 - 500	3 - 1500	0.5 - 150	1 - 500	3 - 1500	See individual columns
Reflectorless Range (ft)	1 - 110	2 - 500	3 - 1500	10 - 4650	1 - 110	2 - 500	3 - 1500	10 - 4650	2 - 500	3 - 1500	10 - 4650	↓
Max Range (m)	650	650	650	6000	650	650	650	6000	650	650	6000	±1 to ±15 cm
Max Range (ft)	2000	2000	2000	18600	2000	2000	2000	18600	2000	2000	18600	1 to 10 cm
Accuracy (cm)	5	5	5	5	15	15	15	15	5	5	5	1
Resolution (cm)	1	1	1	1	10	10	10	10	1	1	1	up to 1000*
Speed Accuracy (mph)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	1	1	Class 1
Rep Rate (Hz)	9	9	9	4	1000	1000	1000	1000	4	4	4	
Eye Safety	Class 1	Class 1	Class 1	Class 1	Class 1	Class 1	Class 1	Class 1M	Class 1	Class 1	Class 1	
Communications												
Data I/O	2m cable with 9-pin D type	2m cable with 9-pin D type	2m cable with 9-pin D type	2m cable with 9-pin D type	2m cable with 9-pin D type	2m cable with 9-pin D type	2m cable with 9-pin D type	2m cable with 9-pin D type	2m cable with 9-pin D type	2m cable with 9-pin D type	2m cable with 9-pin D type	2m cable with 9-pin D type
Trigger Out (digital)	FET Collector	FET Collector	FET Collector	-	FET Collector	FET Collector	FET Collector	-	FET Collector	FET Collector	-	FET Collector
Power (V)	9 to 24	9 to 24	9 to 24	12	9 to 24	9 to 24	9 to 24	12	9 to 24	9 to 24	12	9 to 24
Protocol	RS232	RS232	RS232	RS232	RS232	RS232	RS232	RS232	RS232	RS232	RS232	RS232*
Environmental												
Operating Temp (°C)	-20 to +60	-20 to +60	-20 to +60	-20 to +60	-20 to +60	-20 to +60	-20 to +60	-20 to +60	-20 to +60	-20 to +60	-20 to +60	-20 to +60
Extended Range (°C)*	-35 to +80	-35 to +80	-35 to +80	-35 to +80	-35 to +80	-35 to +80	-35 to +80	-35 to +80	-35 to +80	-35 to +80	-35 to +80	-35 to +80
Protection Class	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67
Physical Construction	Anodised Aluminium	Anodised Aluminium	Anodised Aluminium	Anodised & Painted Aluminium	Anodised Aluminium	Anodised Aluminium	Anodised Aluminium	Anodised & Painted Aluminium	Anodised Aluminium	Anodised Aluminium	Anodised & Painted Aluminium	↑
Dimensions (mm)	103 x 54 x 38	103 x 54 x 38	134 x 83 x 53	154 x 130 x 73	103 x 54 x 38	103 x 54 x 38	134 x 83 x 51	154 x 130 x 73	103 x 54 x 38	134 x 83 x 51	154 x 130 x 73	See individual columns
Dimensions (inches)	4.0 x 2.1 x 1.5	4.0 x 2.1 x 1.5	5.3 x 3.3 x 2.0	6.0 x 5.1 x 2.9	4.0 x 2.1 x 1.5	4.0 x 2.1 x 1.5	5.3 x 3.3 x 2.0	6.0 x 5.1 x 2.9	4.0 x 2.1 x 1.5	5.3 x 3.3 x 2.0	6.0 x 5.1 x 2.9	↓
Weight (g)	260	260	600	950	260	260	600	950	260	600	950	
Weight (oz)	9.2	9.2	21	33.5	9.2	9.2	21	33.5	9.2	21	33.5	

Variations on these standard specifications are available, for example, *RS485 or RS422 outputs, *higher rep rates and longer ranges. Custom sizes and formats are also available.

Internal software and functionality can also be changed to suit OEM applications where appropriate.

*Extended temperature versions are identified with the (L) added to the product name.