



M7L

For simple applications

10 kHz measuring rate, sampling rate 54 kHz, separate electronics

Measuring range	[mm]	0.5	2	4	10	20	50	100	200	400
Range begin	[mm]	23.75	23	22	40	55	115	170	240	480
Linearity ±	[μm]	1	4	8	20	40	100	200	400	700
Resolution *	[μm]	0.2	0.4	1	5	9	30	60	200	600
Distance output		±10V / 4-20mA / RS232, opt. ±5V / 0-5V / 0-10V / 0-20mA *) at 15 Hz								



M7LL

For fast moving objects, with Ethernet connection

10 kHz measuring rate, sampling rate 54 kHz, separate electronics

Measuring range	[mm]	0.5	2	4	10	20	50	100	200
Range begin	[mm]	23.75	23	22	40	55	115	170	240
Linearity ±	[μm]	1	4	8	20	40	100	200	400
Resolution *	[μm]	0.3	1.3	2.6	6.5	13	32.5	65	200
Resolution **	[μm]	0.02	0.1	0.2	0.5	1	2.5	6	20
Distance output		Ethernet, ±10V / 4-20mA, opt. ±5V / 0-5V / 0-10V / 0-20mA *) at 10 kHz **) at 20 Hz							



M70LL

For very fast moving objects, with Ethernet connection

100 kHz measuring rate, sampling rate 400 kHz, separate electronics

Measuring range	[mm]	0.5	2	4	10	20	50	100	200
Range begin	[mm]	23.75	23	22	40	55	115	170	240
Linearity ±	[μm]	1.5	6	12	30	60	150	300	600
Resolution *	[μm]	0.8	3.5	7	17.5	35	50	100	330
Resolution **	[μm]	0.05	0.2	0.4	1	2	7.5	15	50
Distance output		Ethernet, ±10V / 4-20mA, opt. ±5V / 0-5V / 0-10V / 0-20mA *) at 100 kHz **) at 230 Hz							



M10L

For distances up to 150 m

10 Hz / 50 Hz measuring rate, adjustable thresholds, phase comparison

Measuring range	[m]	150
Range begin	[m]	0.2
Linearity ±	[mm]	0.5
Resolution	[mm]	0.1
Distance output		4-20 mA / RS232, optional 2-10 V / RS422



M11LLi

For difficult surfaces, with Ethernet connection

30 kHz measuring rate, adjustable parameters, built-in electronics

Measuring range	[mm]	4	10	20	40	50	100
Range begin	[mm]	20	25	40	30	55	90
Linearity ±	[μm]	2	5	10	20	25	50
Resolution *	[μm]	2.8	7	14	28	35	70
Resolution **	[μm]	0.2	0.5	1	2	2.5	5
Distance output		Ethernet *) at 30 kHz **) at 10 Hz					

Laser Scanner

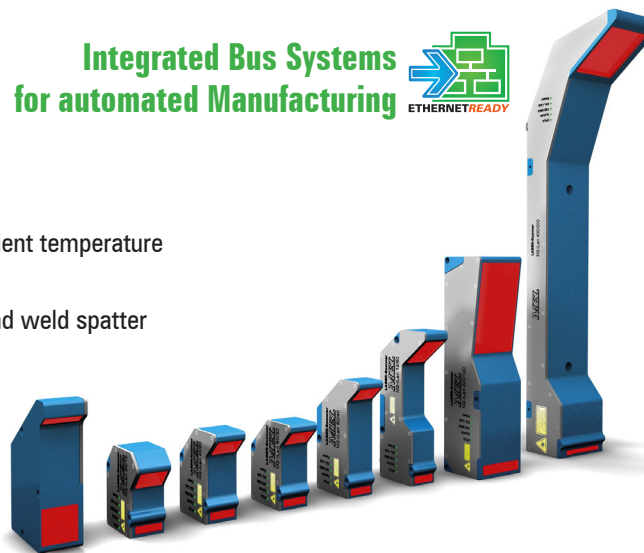
Integrated Bus Systems
for automated Manufacturing



Modular Construction

- >> **Water cooling**
Measurements up to 400°C ambient temperature
- >> **Protection glass**
protects from dust, metal chips and weld spatter

New: M2 Laser Scanner with scan rates of 380 Hz and 700 Hz



M2-iLAN-2 Laser Scanner 100 Hz

M2-iLAN-2		6/4	10/13	20/10	40/20	60/30	80/40	120/60	260/100	400/200
Measuring range Z	[mm]	6	10	20	40	60	80	120	260	400
Range begin Z	[mm]	38.6	65	55	50	53	63	84	150	330
Range begin X	[mm]	4	13	10	20	30	40	60	100	200
End of Range X	[mm]	4.5	15	13	26	40	55	80	170	280
Resolution Z *	[mm]	0.003	0.01	0.02	0.02	0.035	0.045	0.06	0.13	0.2
Resolution X *	[mm]	0.008	0.025	0.02	0.04	0.07	0.09	0.14	0.29	0.48
Linearity		0.2% full scale range			0.2% full scale range			0.2% full scale range		
Scan rate		100 Hz			100 Hz			100 Hz		
Typical applications		Gap control			Weld seam tracking			Surface detection		

*) Measurement on matt white diffusely reflecting surface

M2-iLAN-2-TL

>> **Optimized for measurement on transparent plastics**

M2-iLAN-2 Laser Scanner 380 Hz / 700 Hz

M2-iLAN-2-F	80/40	220/120
Measuring range Z	80 mm	220 mm
Range begin Z	75 mm	140 mm
Range begin X	40 mm	120 mm
End of range X	55 mm	180 mm
Resolution Z *	0.045 mm	0.11 mm
Resolution X at 380 Hz (700 Hz) *	0.095 mm (0.190 mm)	0.275 mm (0.550 mm)
Linearity	0.2% full scale range	0.2% full scale range
Scan rate	380 Hz / 700 Hz	380 Hz / 700 Hz
Typical applications	Laser weld seam tracking	Adhesive bead check



*) Measurement on matt white diffusely reflecting surface

M2-iLUW

>> **Special Underwater Scanner**

Error and technical modification reserved

UE-Sensor-Scanner_10-02-E

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