PaintChecker Industrial
Line LLP 3.5 | Line LHP 10.0

Thanks to their robust industrial housing, the new generation of OptiSense **PaintChecker Industrial Line** laser sensors can be operated even under harshest environmental conditions.

The sensor uses a diode laser as a light source – with all the advantages of semiconductor technology, such as long durability, high efficiency and absolute vibration resistance.
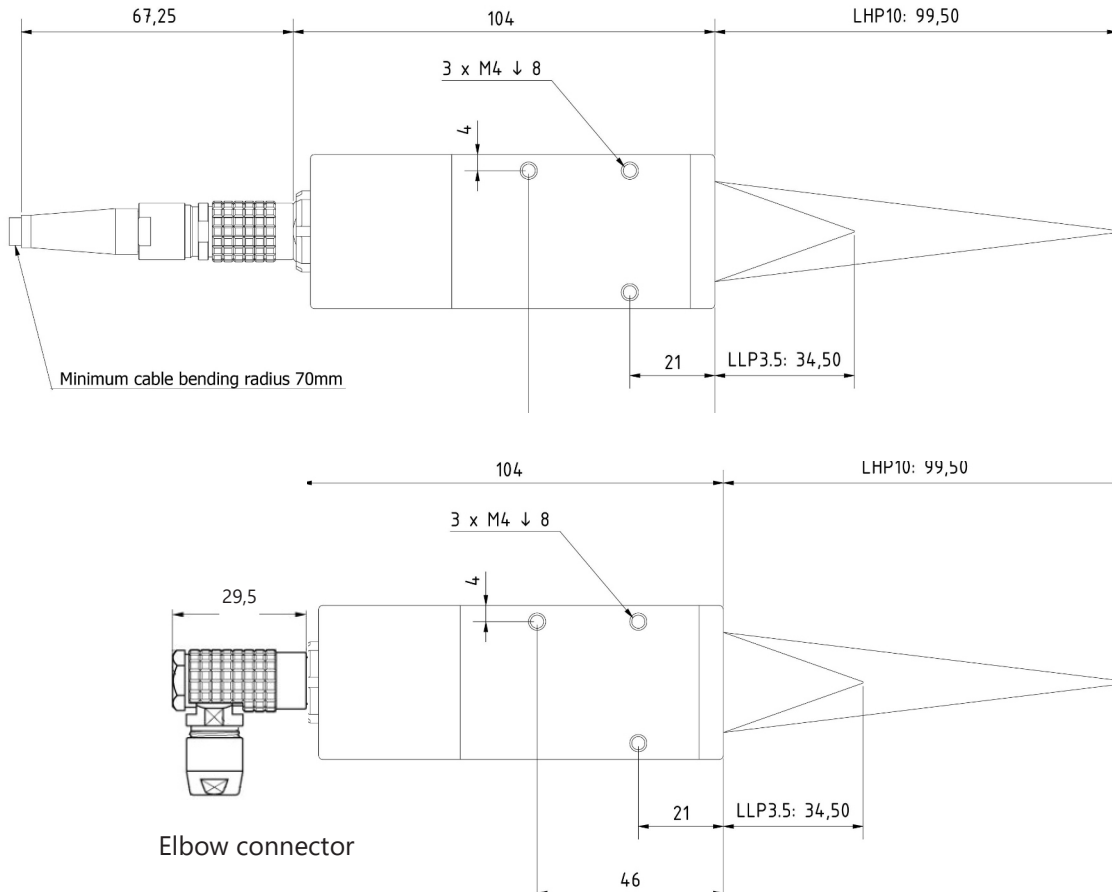
The optimized thermal design enables continuous operation at high measurement rates. Models equipped with LARES®–technology are eye-safe.

The **PaintChecker Industrial Line** sensor is also available as a high-power version.

Technical Data | PaintChecker Industrial Line					
Model	Line LLP 3.5	Line LHP 10.0	**Model**	Line LLP 3.5	Line LHP 10.0
Order number	S23-0700-013	S23-0700-014	Order number	S23-0700-013	S23-0700-014
Design	Laser, Mini Tower		Distance tolerance	± 2.5 mm	± 5 mm
Measurement range	1 - 1000 µm		Angular tolerance	± 15°	
Measurement rate	max. 2.5 Hz		Max. acceleration	5 g	
Measurement time	125 - 1000 ms; laser pulse: maximal 500ms		Size measuring field Ø	0.3 mm	0.5 mm
Diffusor	1°		Max. pulse energy	650 mJ	1250 mJ
Duty Cycle	33 %		Wavelength	1480 nm	
Max. On-time	1s		Classification	1	4
Operating mode	pulsed operation		Eye safety	yes	no
Resolution	1 % of reading (typical)		Dimensions (L x W x H)	38 x 36 x 104 mm	
Accuracy	3 % of reading (typical)		Weight	330 g	
Measuring distance lens	35 mm	100 mm	IP Code	IP 50	

PaintChecker Industrial
Line LLP 3.5 | Line LHP 10.0

67,25 | 104 | LHP10: 99,50

3 x M4 ↓ 8

4

Minimum cable bending radius 70mm

21 | LLP3.5: 34,50

104 | LHP10: 99,50

3 x M4 ↓ 8

4

29,5

Elbow connector

21 | LLP3.5: 34,50

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Safety Redefined | **LARES® - Technologie**

OptiSense LARES® stands for LAser Radiation Eye Safety. Thanks to our patented LARES® technology, operators, machinery and environment at the manufacturing and processing location are reliably protected.

All sensors with the LARES® logo are eye-safe. They can be used directly and without any restrictions in almost all areas of application and can be operated without anytechnical protection measures. The designation of a laser protection supervisor, which is mandatory for laser radiation hazardous to eyes, and the briefing and instructing the operating per-sonnel, which must be properly docu-mented, can thus be omitted with.

Delivery Contents & Accessories

Delivery Contents

• Sensor

Accessories

• Cable with angle plug
• Calibration certificate