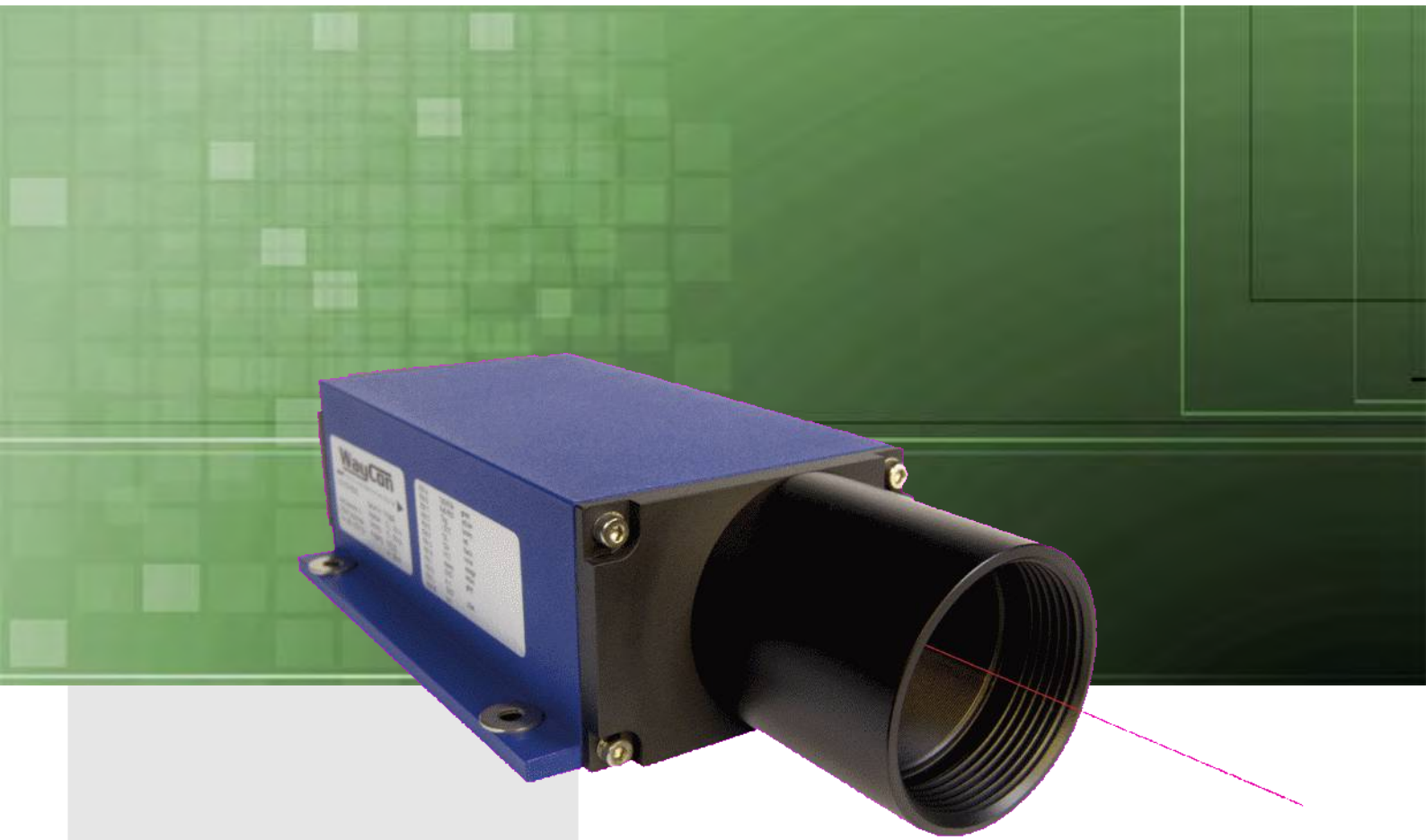
LASER

Laser-Position-Transducer



LLD Series

Key-Features:

- ***Measurement range: 0.1 to 150 m***
- ***Resolution: 0.1 mm***
- ***Repeatability: ±0.5 mm***
- ***Linearity: ±2 mm on white surfaces, ±3 mm on natural surfaces***
- ***Protection class: IP65***
- ***Working temperature: -10 to 50 °C, with heating: -40 to 50 °C***
- ***Measuring frequency selectable: 10Hz or 50Hz***
- ***Analog output: 4..20mA (must be configured with the included software)***
- ***Digital outputs: RS232, RS422, Profibus, SSI***

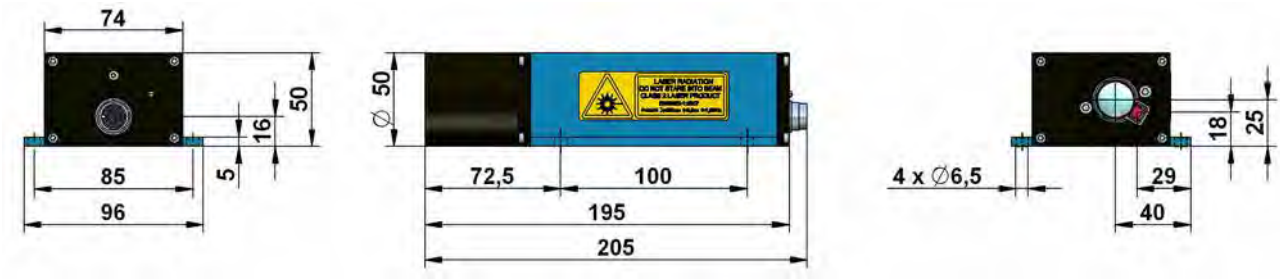
TECHNICAL DATA

Measurement range	0.1…30 m on all natural diffuse reflecting surfaces, on target board up to 150 m
Resolution	0.1 mm
Linearity	±2 mm on white surfaces (+15…+30 °C), ±3 mm on natural surfaces (+15…+30 °C), ±5 mm (-10…+50 °C)
Repeatability	≤0.5 mm
Selectable measuring frequency	10 Hz or 50 Hz
Measuring rate	0.16…6 s (10 Hz), 0.02 s (50 Hz)
Supply voltage	10…30 VDC
Max. power consumption	1.5 W, Profibus: 3.2 W
Max. power consumption, option H	24 W (24 VDC), Profibus, SSI: 25.7 W (24 VDC)
Analog output	4…20 mA (parameterise using RS232/ RS422), load ≤500 Ohm
Digital Output	RS232, RS422, Profibus, SSI
Transfer rate	2,4 / 4,8 / 9,6 / 19,2 / 38,4 kBaud for RS232 and RS422, max. 12 MBaud for Profibus, 50…1000 kHz for SSI
Switching outputs	1 (max. capacity load 0.5 A), Profibus, SSI: 2 (max. capacity load 0.5 A)
Trigger input *	trigger impulse 24 V
Connection	12-pole M16-connector; for Profibus, SSI in addition: 5-pole M12-connector (male) and M12-connector (female)
Light source	laser diode (red), wavelength 650 nm
Laser class	2, ≤1 mW
Protection class	IP65
Storage temperature	-40…+70 °C
Working temperature	-10…+50 °C
Working temperature, option H	-40…+50 °C, by heating
Weight	760 g, Profibus, SSI: 770 g
Electromagnetic compatibility (EMC)	EN 61326-1

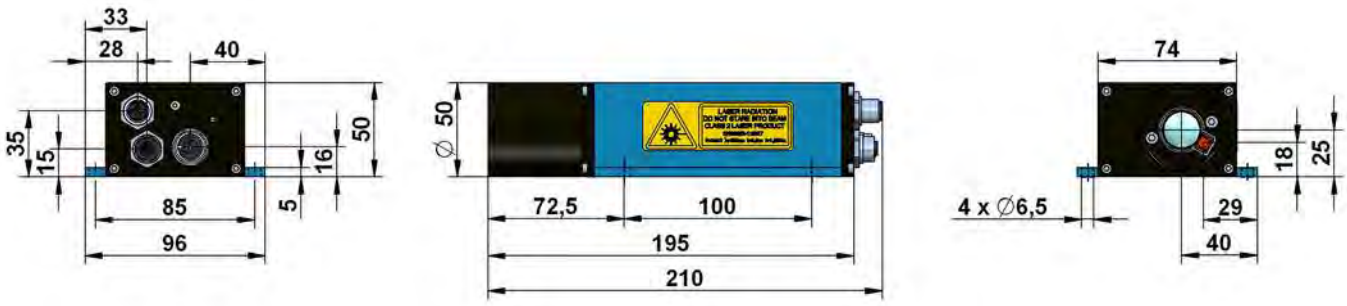
* not available for models with option H (heating)

TECHNICAL DRAWINGS

LLD-150-RS232, LLD-150-RS422



LLD-150-Profibus



Distributor and system integrator

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