

Laser Distance Sensors HP



Remote Precise
Localization and Ranging

High
Frame Rate

High
Precision

Industrial-Grade
Waterproof and Dustproof

Technology

HP series are industrial high-precision laser distance sensors developed by Luminwave's proprietary silicon photonics FMCW technology.

Feature



Long-Range
Detection Capability



High Frame Rate
High Response Speed



High Precision
High Resolution



Supports Multiple
I/O Interfaces



Anti-Interference
Ambient Light Immunity



Reliable Industrial
Waterproof and Dustproof



Easily Operation
Flexibile Installation



Coaxial Optical Path
Support Measurement
of Step/Hole/Multi-Layer

Application



Parking Garage
Positioning



Stacker Cranes
Positioning



Vehicle
Positioning



Industrial
Measurement

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■ Specification

Parameters		LWP-FHP0X-100/H Series
Optics	Light Source	1550nm Semiconductor Laser
	Laser Class	Class 1(IEC 60825-1:2014, EN 60825-1:2014)
	Mechanism	FMCW
	Light Spot Size (@Sensing Distance)	10mm @100,000mm
Performance	Measurement Range	0.15 ~ 100m
	Target	Diamond Grade Reflective Tape
	Measurement Accuracy	±2mm
	Repeatability	1mm@1σ
	Sampling Time	1ms
	Response Time	1ms
	Doppler Velocity	Support
Power Supply	Supply Voltage	18 ~ 30 V DC
	Current	< 250 mA (24 V DC)
Structure	Housing Material	Metal
Connector	Connector	EtherCAT, Ethernet, SSI, RS 232 / 422 / 485
Environment	Ambient Light Resistance	≥ 100Klux
	Cross Talk Resistance	Support Multi-Product Operation
	Operating Temperature	-20°C ~ 55°C (<-10°C, Warm up for 7 minutes)
	Storage Temperature	-40°C ~ 75°C
	Humidity	IP65
	Environmental Protection	95% (Non-Condensing)
Product Certification		CE, ROHS

Note: Product specifications may vary for different model types and configurations, please contact us for details.

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