

FT 25-RL(H/A)P – Long-Range Performance in a Compact Design

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Miniature Time-of-Flight (ToF) Sensor for Precise Distance Measurement

Now with reliable distance output



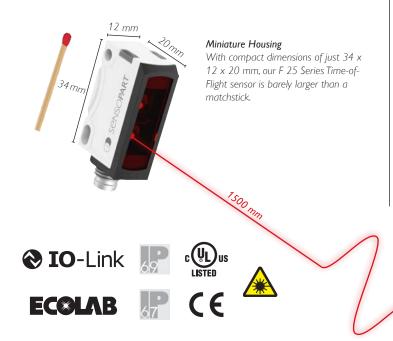
FT 25-RL(H/A)P - Long-Range Performance in a Compact Design

Miniature Time-of-Flight (ToF) Sensor for Precise and Reliable Measurements



Precise Detection – From Object Detection to Distance Measurement:

The FT 25-RL(H/A)P is a versatile all-rounder. With its compact housing, long 1500 mm range, and exceptional sensor performance, it's the ideal solution for various industrial applications.

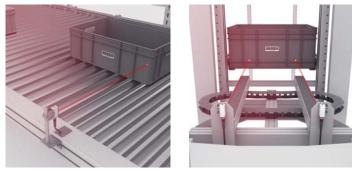


KEY FEATURES OF THE FT 25-RL(H/A)P

- Reliable Measurement Output Stable, precise results thanks to proven Time-of-Flight (ToF) technology (FT 25-RLAP)
- Flexible Configuration Adjustable analog and switching outputs with simple teach-in via button (FT 25-RLAP)
- Long Range in a Compact Design Object detection and distance measurement up to 1.5 meters in a miniature housing (34 × 20 × 12 mm)
- Excellent Detection Properties Reliable detection on nearly all surfaces, including metal and colored plastics
- Precise Background Suppression Adjustable for optimal performance
- Easy Integration and Alignment Visible light spot for quick alignment and installation, even in tight spaces
- Safe Operation Laser Class 1 for safe use without
 additional protective measures









Applications and Industries

Warehouse & Logistics

- Compartment occupancy checks and precise position determination for autonomous storage and retrieval processes, such as mobile robots, automated warehouse systems (AS/RS), and high-bay warehouses.
- Accurate object detection on conveyor belts to optimize sorting and loading processes.

Assembly & Handling

 Presence and position detection of components for material flow control at manual workstations and in assembly lines.

Robotics

• Object presence detection and position determination for gripping and handling processes.

Automotive Industry

 Precise position control of vehicle components (such as hoods, doors, trunk lids) during the production process.

Other

 Monitoring of track position in rail-guided robots and detection of objects or danger points in automated guided vehicles (AGVs).

Sensor	Light type	Features	Operating Range	Connection Type	Additional Information
FT 25-RLHP-PNSL-M4M	Laser Class 1 🗼	Teach-in (button and control cable) 1 switching output; IO-Link	100 1500 mm	Metal Connector M8, 4-pin	
FT 25-RLHP-PNSL-KL4	Laser Class 1 🗼	Teach-in (button and control cable) 1 switching output; IO-Link	100 1500 mm	150 mm pigtail with M12 connector, 4-pin	
FT 25-RLAP-PNSL-M4M	Laser Class 1 🛕	Teach-in (button and control cable) 1 switching output; 1 analogue output; IO-Link	100 1500 mm	Metal Connector M8, 4-pin	
FT 25-RLAP-PNSL-KL4	Laser Class 1 🐊	Teach-in (button and control cable) 1 switching output; 1 analogue output; IO-Link	100 1500 mm	150 mm pigtail with M12 connector, 4-pin	

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