

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

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

NEW
Now with
reliable distance
output



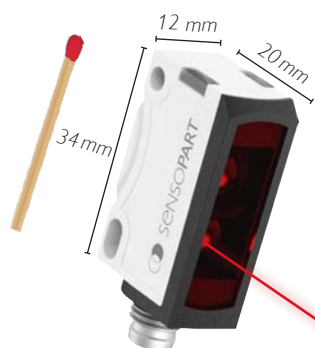
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Miniature Time-of-Flight (ToF) Sensor for Precise and Reliable Measurements



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.



Miniature Housing

With compact dimensions of just 34 x 12 x 20 mm, our F 25 Series Time-of-Flight sensor is barely larger than a matchstick.

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 x 20 x 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

 IO-Link

 IP69

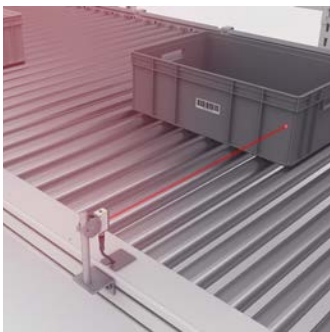
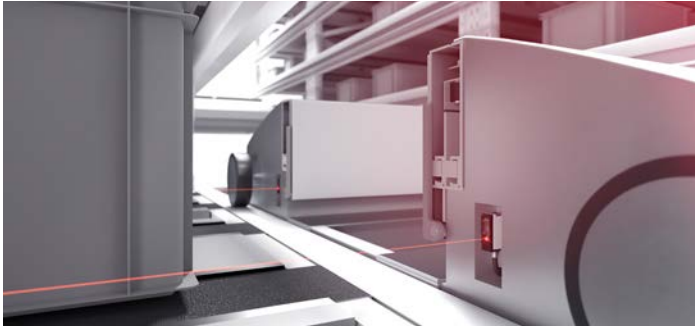
 UL LISTED

 ECOLAB

 IP67

 CE





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).

FT 25-RL(H/A)P – Product overview

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	

SensoPart is a leading manufacturer of photoelectric sensors and machine vision sensors for factory automation. We also offer inductive and ultrasonic sensors, covering a wide spectrum of industrial automation tasks. Our products are used in a variety of industries, including automotive assembly, mechanical engineering, electronics manufacturing, solar, food, and pharmaceuticals. We take great pride in our renowned, German-made quality products, developed and manufactured at our two facilities in Germany and shipped worldwide.



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SensoPart worldwide

With our global network and worldwide subsidiaries, we are always ready to support you.

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