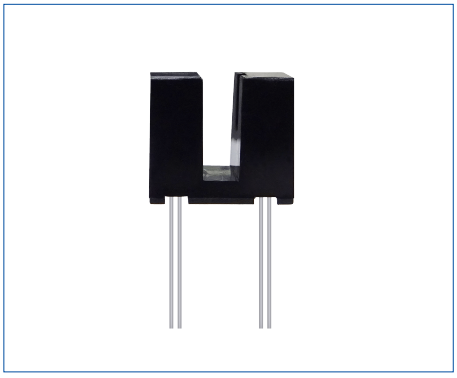
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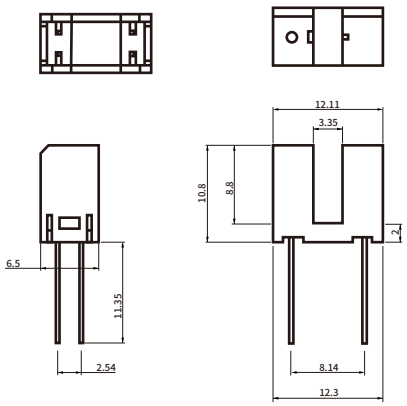
General Specification

InfraRed Proximity sensor

NO: PTS-1052



Dimensions (mm)



Product characteristics

- **Advanced infrared optical sensing technology**
  Accurate, contactless detection with consistent switching performance.
- **Fast response time with high repeatability**
  Supports real-time door status monitoring and safety control logic.
- **High durability, maintenance-free operation**
  No mechanical components subject to wear, ensuring extended service life.
- **Compact and integration-friendly design**
  Optimized for space-constrained equipment architectures.
- **Stable performance under frequent cycling**
  Suitable for high-usage office automation and industrial printing environments.
- **Low power consumption and efficient signal output**
  Designed for modern embedded control systems.
- **Custom engineering support**
  Configurable sensing distance, housing design, connectors, and cable assemblies available upon request.

Applications

- **Food & Beverage Equipment**
  Door open/close detection for commercial refrigeration, display cabinets, and processing equipment to ensure safety and temperature control compliance.
- **ATM**

Product performance characteristics

Parameter		Symbol	Ratings	Units
Input	Forward DC Current	IF	50	mA
	Reverse DC Voltage	VR	5	V
	Collector Power Dissipation	PD	75	mW
Output	Collector-Emitter	VCEO	30	V
	Emitter-Collector Voltage	VCEO	5	V
	Collector Current	IC	20	mA
	Collector Power Dissipation	PC	75	mW

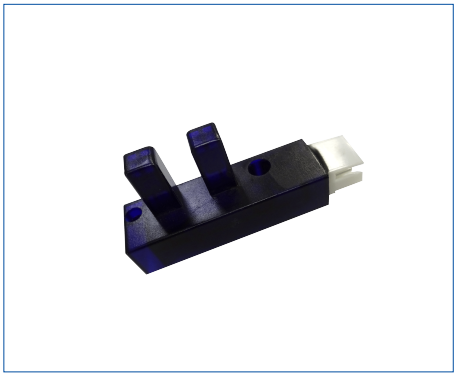
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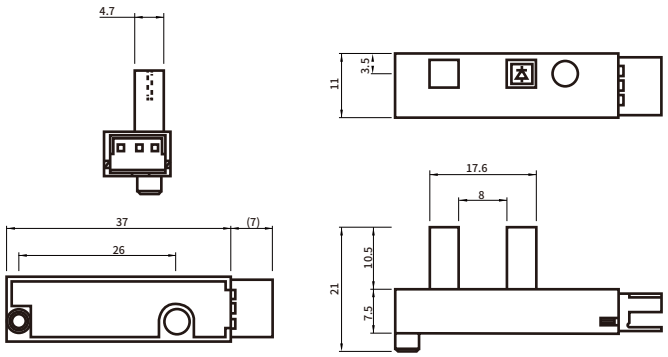
General Specification

InfraRed Proximity sensor

NO: PTS-3301



Dimensions (mm)



Product characteristics

- **Advanced infrared optical sensing technology**
  Accurate, contactless detection with consistent switching performance.
- **Fast response time with high repeatability**
  Supports real-time door status monitoring and safety control logic.
- **High durability, maintenance-free operation**
  No mechanical components subject to wear, ensuring extended service life.
- **Compact and integration-friendly design**
  Optimized for space-constrained equipment architectures.
- **Stable performance under frequent cycling**
  Suitable for high-usage office automation and industrial printing environments.
- **Low power consumption and efficient signal output**
  Designed for modern embedded control systems.
- **Custom engineering support**
  Configurable sensing distance, housing design, connectors, and cable assemblies available upon request.

Applications

- **Food & Beverage Equipment**
  Door open/close detection for commercial refrigeration, display cabinets, and processing equipment to ensure safety and temperature control compliance.
- **3D printer**

Product performance characteristics

Parameter		Symbol	Ratings	Units
Input	Forward DC Current	IF	50	mA
	Reverse DC Voltage	VR	5	V
	Power Dissipation	PD	75	mW
Output	Collector-Emitter Voltage	VCEO	30	V
	Emitter-Collector Voltage	VECO	5	V
	Collector Current	IC	20	mA
	Collector Power Dissipation	PC	75	mW

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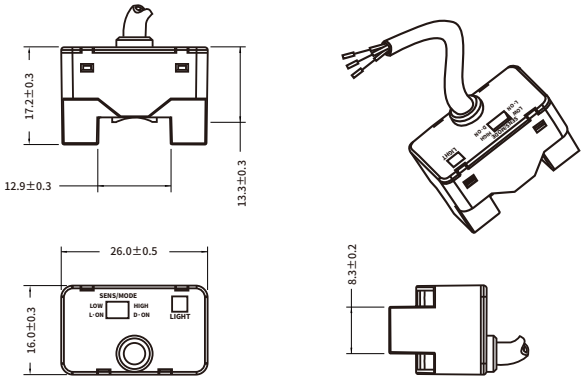
General Specification

Photoelectric Sensor

NO: PTS-9001



Dimensions (mm)



Product characteristics

- **Advanced infrared optical sensing technology**
  Accurate, contactless detection with consistent switching performance.
- **Fast response time with high repeatability**
  Supports real-time door status monitoring and safety control logic.
- **High durability**
  No mechanical components subject to wear, ensuring extended service life.
- **Compact and integration-friendly design**
  Optimized for space-constrained equipment architectures.
- **Stable performance under frequent cycling**
  Suitable for high-usage office automation and industrial printing environments.
- **Low power consumption and efficient signal output**
  Designed for modern embedded control systems.
- **Custom engineering support**
  Configurable sensing distance, housing design, connectors, and cable assemblies available upon request.

Applications

- To detect milk flow into and out of the milk bar of the coffee machine

Product performance characteristics

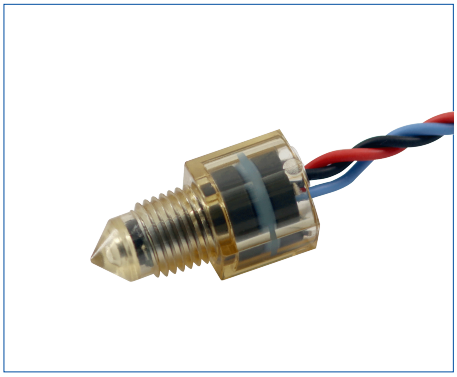
Characteristics	Parameter		Rating
Electrical Characteristics	1-1. Power supply voltage		12 to 24 VDC+/-10% ripple (p-p) 5 % max.
	1-2. Control output	output type	Open Drain output
		Load power supply voltage	5 to 24 V DC
		Load current	100 mA max.
		Residual voltage	at 100 mA load current: 0.8 V max. at 40 mA load current: 0.4 V max.
	1-3. Current consumption		Average value: 30 mA max. Peak: 80 mA max.
	1-4. Indication		Light indicator
	1-5. Operation mode		Dark-ON/Light-ON (selectable)

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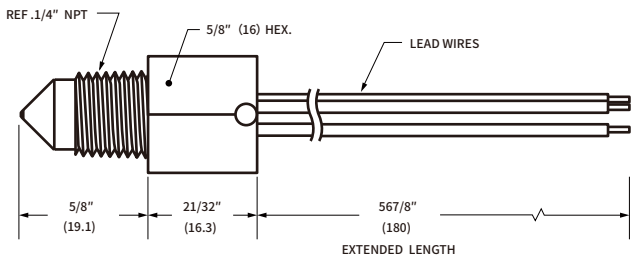
General Specification

Optical Liquid Level Sensor

NO: PTS-9002



Dimensions (mm)



Product characteristics

- **Advanced infrared optical sensing technology**
  Accurate, contactless detection with consistent switching performance.
- **Fast response time with high repeatability**
  Supports real-time door status monitoring and safety control logic.
- **High durability, maintenance-free operation**
  No mechanical components subject to wear, ensuring extended service life.
- **Compact and integration-friendly design**
  Optimized for space-constrained equipment architectures.
- **Stable performance under frequent cycling**
  Suitable for high-usage office automation and industrial printing environments.
- **Low power consumption and efficient signal output**
  Designed for modern embedded control systems.
- **Custom engineering support**
  Configurable sensing distance, housing design, connectors, and cable assemblies available upon request.

Applications

- **Sewage and Wastewater Treatment Systems**
  Oil layer detection, phase interface monitoring, and overflow prevention in separation tanks and collection systems. Suitable for environments where conductive or mechanical sensors are not practical.
- **Beverage and Fluid Dispensing Equipment**
  Liquid presence verification, flow confirmation, and dry-run protection within enclosed fluid modules and dispensing assemblies.
- **Washing and Laundry Systems**
  Drain status confirmation and empty-tank detection to ensure complete water evacuation prior to high-speed spin cycles or subsequent operation stages.
- **Industrial Fluid Control Systems**
  Point-level detection in reservoirs, pipelines, and processing equipment requiring compact, solid-state sensing solutions.

Product performance characteristics

Characteristics	Parameter	Rating
Electrical Characteristics	1-1. Power Requirement	DC Input: 12V ±10%
	1-2. Control Output	At 30V DC Open drain may sink 40mA max
	1-3. Working Current	No load：10mA max
Mechanical Properties	1-4. Operating Pressure	0 to 250 psing, (0 to 17 bar) Max.
	1-5. Mechanical	Threaded units: 1/4 NPT

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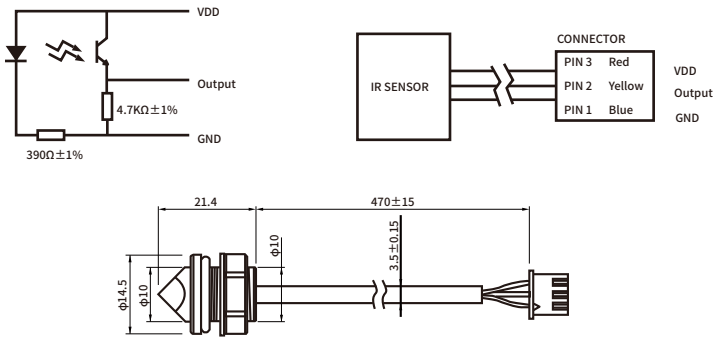
General Specification

InfraRed Liquid Level Sensor

NO: IR-8001



Dimensions (mm)



Product characteristics

- **Advanced infrared optical sensing technology**
  Accurate, contactless detection with consistent switching performance.
- **Fast response time with high repeatability**
  Supports real-time door status monitoring and safety control logic.
- **High durability, maintenance-free operation**
  No mechanical components subject to wear, ensuring extended service life.
- **Compact and integration-friendly design**
  Optimized for space-constrained equipment architectures.
- **Stable performance under frequent cycling**
  Suitable for high-usage office automation and industrial printing environments.
- **Low power consumption and efficient signal output**
  Designed for modern embedded control systems.
- **Custom engineering support**
  Configurable sensing distance, housing design, connectors, and cable assemblies available upon request.

Applications

- **Sewage and Wastewater Treatment Systems**
  Oil layer detection, phase interface monitoring, and overflow prevention in separation tanks and collection systems.
- **Beverage and Fluid Dispensing Equipment**
  Liquid presence verification, flow confirmation, and dry-run protection within enclosed fluid modules and dispensing assemblies.
- **Washing and Laundry Systems**
  Drain status confirmation and empty-tank detection to ensure complete water evacuation prior to high-speed spin cycles or subsequent operation stages.

Product performance characteristics

	Parameter	Symbol	Condition	Min	Type	MAX	Units
Direct-current Characteristic	Working Voltage	V_{DD}	—	4.5	5	5.5	V
	Current	I_{DD}	V_{DD}=5V IN WATER	10	15	20	mA
			V_{DD}=5V IN AIR	15	20	25	mA
	Power Consumption	P_D	V_{DD}=5V IN WATER	50	75	100	mW
			V_{DD}=5V IN AIR	75	100	125	mW
Output Characteristic	Output Voltage In Water	V_{out1}	V_{DD}=5V	0	0.3	0.8	V
	Output Voltage In Air	V_{out2}	V_{DD}=5V	2.0	4.8	5	V
	Output Current	I_{OL}	V_{DD}=5V	15	20	25	μA
	Output Current	I_{OH}	V_{DD}=5V	—	10	—	mA
	Response Time	T_r	V_{DD}=5V	—	100	—	μs

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