

PS Series Fork Sensors

Fork Sensor U-frame - Liquid Detection



- Rugged metal one-piece housing - always in alignment
- Slot sensor
- Infrared
- Liquid Detection
- Easy installation
- High resolution
- Light / Dark operation selectable
- Adjustable sensitivity
- High switching frequency
- M8 connector with 360° LED

PS Series Fork Sensor U-frame Selection Chart - Liquid Detection							
Part Number	Price	Sensing Range	Output State	Logic	Connection	Wiring	Dimensions
<u>PSTI-0P-4F</u>		30mm (1.18 in)	Light On/Dark On Selectable	PNP	M8 connector	Diagram 2	Figure 1
<u>PSTI-0N-4F</u>		30mm (1.18 in)	Light On/Dark On Selectable	NPN	M8 connector	Diagram 1	
<u>PSTI-0P-6F</u>		80mm (3.15 in)	Light On/Dark On Selectable	PNP	M8 connector	Diagram 2	Figure 2
<u>PSTI-0N-6F</u>		80mm (3.15 in)	Light On/Dark On Selectable	NPN	M8 connector	Diagram 1	

Wiring diagrams

Diagram 1

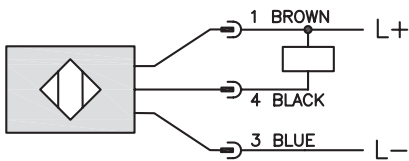
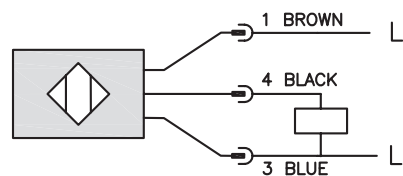
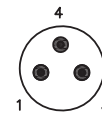


Diagram 2



Connectors
M8 connector



Note: Class 2 power supply required

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Specifications	
	<i>Liquid Detection</i>
Mounting Type	Slot
Sensing Distance	30mm (1.18 in) or 80mm (3.15 in)
Smallest Detectable Object*	PSTI 4F 0.6 mm (0.003 in) PSTI 6F 0.8 mm (0.031 in)
Emission	Infrared Light
Sensitivity	Adjustable Potentiometer (0 to 270°)
Output Type	NPN or PNP/ Light on/Dark on/ 3-wire
Operating Voltage	10 to 30 VDC
No-load Supply Current	≤ 35mA
Operating (Load) Current	200mA
Off-state (Leakage) Current	N/A
Voltage Drop	≤ 3.0V (PNP); ≤2.5 (NPN)
Switching Frequency	2kHz
Differential Travel	N/A
Repeat Accuracy*	0.1 mm (0.0039 in)
Ripple	N/A
Time Delay Before Availability (tv)	N/A
Reverse Polarity Protection	Yes
Short-Circuit Protection	Yes
Operating Temperature	-10 to +60°C (14 to +140°F)
Protection Degree (DIN 40050)	IP67
Indication/Switch Status	On Yellow LED
Housing Material	GD Zn (Gadolinium-Zinc)
Sensing Face Material	Glass
Shock	Meets IEC 68-2-27 (See Photoelectric Sensor at the end of this section for more details)
Vibration	Meets IEC 68-2-6 (See Photoelectric Sensor at the end of this section for more details)
Tightening Torque	N/A
Weight	PSTI 4F 66g (2.33 oz) PSTI 6F 135g (4.76 oz)
Connection	M8 connector
Agency Approvals	CE

Note: To obtain the most current agency approval information— see the Agency Approval Checklist section on the specific part number's web page.

* Data applies to solid targets.

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Dimensions

mm [inch]

Figure 1

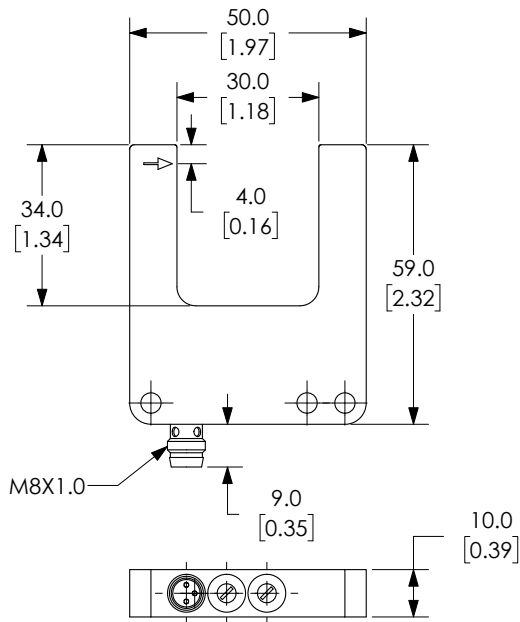
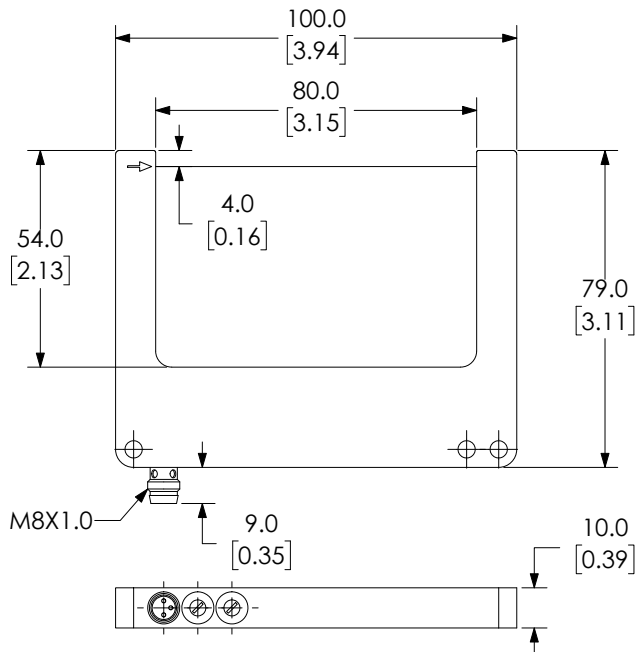


Figure 2



See our website: for complete Engineering drawings.