

# PS Series Fork Sensors

## Fork Sensor U-Frame - Food Applications



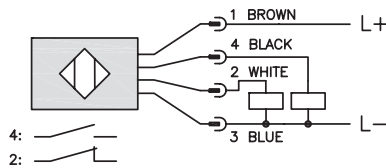
### Features:

- Rugged metal one-piece housing - always in alignment
- Easy installation
- Stainless steel slot sensor
- Visible red light
- Food applications
- Complementary
- Light-on/Dark-on
- High switching frequency
- M12 connector with cable

PS Series Fork Sensor U-frame Selection Chart - Food Applications							
Part Number	Price	Sensing Range	Output State	Logic	Connection	Wiring	Dimensions
<b>PSUFR-0P-5F</b>	\$383.00	50mm [1.18 in]	Complementary Light-on/Dark-on	PNP	M12 connector	Diagram 1	Figure 1
<b>PSUFR-0P-6F</b>	\$407.00	80mm [3.15 in]				Diagram 1	Figure 2

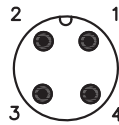
## Wiring Diagrams

Diagram 1



### Connectors

M12 connector



# PS Series Fork Sensors

Specifications	
	<i>Food Applications</i>
<b>Mounting Type</b>	Slot
<b>Sensing Distance</b>	50mm [1.97 in] to 80mm [3.15 in]
<b>Smallest Detectable Object</b>	PSUFR 5F 0.8 mm [0.003 in] PSUFR 6F 1.0 mm [0.04 in]
<b>Emission</b>	Visible Red Light
<b>Output Type</b>	PNP/ Light on/Dark on/ 4-wire
<b>Operating Voltage</b>	10 to 30VDC
<b>No-load Supply Current</b>	≤ 35mA
<b>Operating (Load) Current</b>	200mA
<b>Off-state (Leakage) Current</b>	N/A
<b>Voltage Drop</b>	≤ 3.0V [PNP]
<b>Switching Frequency</b>	3kHz
<b>Differential Travel</b>	N/A
<b>Repeat Accuracy</b>	25μ
<b>Ripple</b>	N/A
<b>Time Delay Before Availability (tv)</b>	N/A
<b>Reverse Polarity Protection</b>	Yes
<b>Short-Circuit Protection</b>	Yes
<b>Operating Temperature</b>	-10 to 60°C [14 to 140°F]
<b>Protection Degree (DIN 40050)</b>	IP67/IP69k
<b>Indication/Switch Status</b>	On Yellow LED
<b>Housing Material</b>	316 L Stainless Steel
<b>Sensing Face Material</b>	PMMA
<b>Shock</b>	Meets IEC 68-2-27 [See Photoelectric Sensor at the end of this section for more details]
<b>Vibration</b>	Meets IEC 68-2-6 [See Photoelectric Sensor at the end of this section for more details]
<b>Tightening Torque</b>	N/A
<b>Weight</b>	PSUFx5F 285g [10.05 oz] PSUFx6F 340g [11.99 oz]
<b>Connection</b>	0.25m PUR cable with 4-pin M12 quick-disconnect
<b>Agency Approvals</b>	CE

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

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## Dimensions

mm [inches]

Figure 1

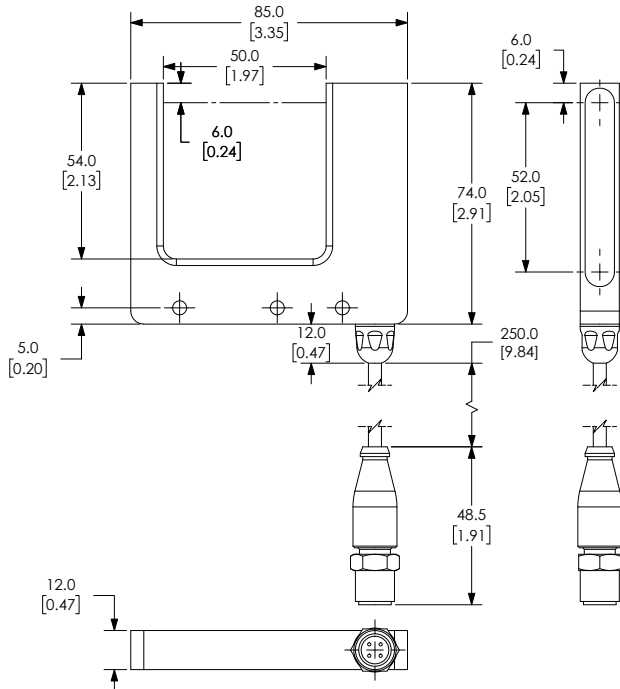
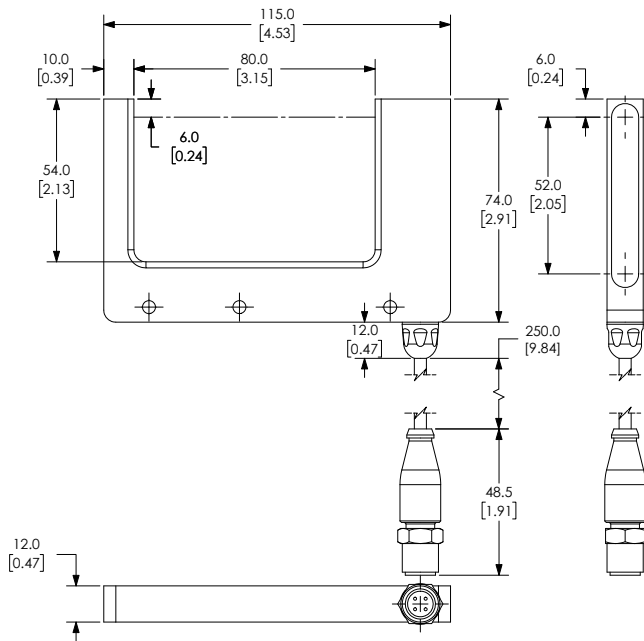


Figure 2



See our website: [www.AutomationDirect.com](http://www.AutomationDirect.com) for complete Engineering drawings.