

PS Series Fork Sensors

Fork Sensor U-Frame - Food Applications



- Rugged metal one-piece housing - always in alignment
- Easy installation
- Stainless steel slot sensor
- Visible red light

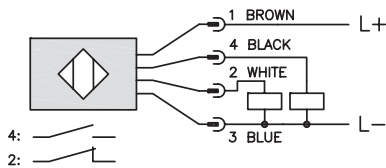
- Food applications
- Complementary light /dark operation
- High switching frequency
- M12 connector with cable



PS Series Fork Sensor U-frame Selection Chart - Food Applications							
Part Number	Price	Sensing Range	Output State	Logic	Connection	Wiring	Dimensions
PSUFR-0P-5F	\$286.00	50mm (1.18 in)	Complementary Light On/Dark On	PNP	M12 connector	Diagram 1	Figure 1
PSUFR-0P-6F	\$304.00	80mm (3.15 in)				Diagram 1	Figure 2

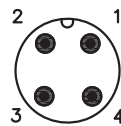
Wiring diagrams

Diagram 1



Connectors

M12 connector



PS Series Fork Sensors

Specifications	
	<i>Food Applications</i>
Mounting Type	Slot
Sensing Distance	50mm (1.97 in) to 80mm (3.15 in)
Smallest Detectable Object	PSUFR 5F 0.8 mm (0.003 in) PSUFR 6F 1.0 mm (0.04 in)
Emission	Visible Red Light
Output Type	PNP/ Light on/Dark on/ 4-wire
Operating Voltage	10 to 30VDC
No-load Supply Current	≤ 35mA
Operating (Load) Current	200mA
Off-state (Leakage) Current	N/A
Voltage Drop	≤ 3.0V (PNP)
Switching Frequency	3kHz
Differential Travel	N/A
Repeat Accuracy	25μ
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/IP69k
Indication/Switch Status	On Yellow LED
Housing Material	316 L Stainless Steel
Sensing Face Material	PMMA
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	PSUFx5F 285g (10.05 oz) PSUFx6F 340g (11.99 oz)
Connection	0.25m PUR cable with 4-pin M12 quick-disconnect
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.

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Dimensions

mm [inch]

Figure 1

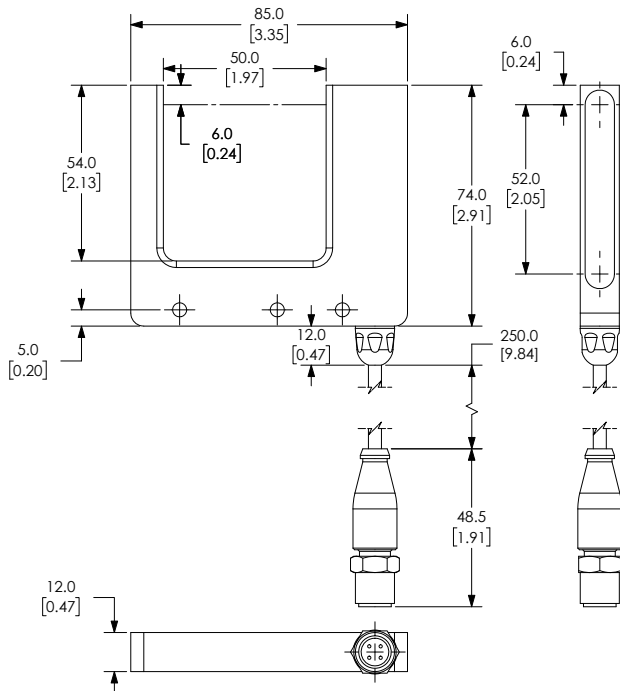
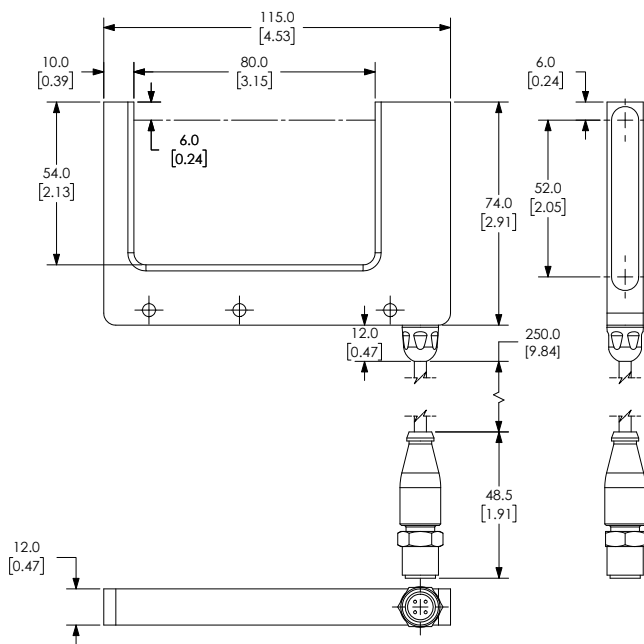


Figure 2



See our website: www.AutomationDirect.com for complete Engineering drawings.