

Installation Instructions

PHOTOSWITCH® Bulletin 42FA Slim Fiber Optic

IMPORTANT: SAVE THESE INSTRUCTIONS FOR FUTURE USE.

Description

The Bulletin 42FA Slim Fiber Optic sensors are useful for applications where compact Fiber Optic sensing is required. Only 8mm x 10mm in diameter, these sensors offer range and response times similar to much larger Fiber Optic sensors.

Bulletin 42FA Slim Fiber Optic sensors are supplied with a DIN rail mounting bracket. Over 40 compatible standard plastic fiber optic cables are available.

Features

- Dual LED indicators: output (red), stability (green)
- Visible red light source
- Selectable light or dark operate
- Can be DIN rail mounted

Features (continued)

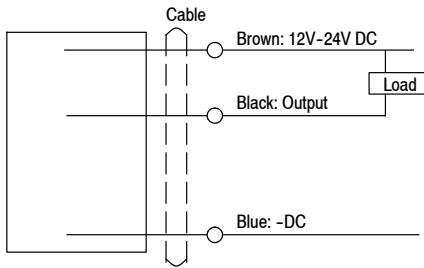
- Reverse polarity protection
- False pulse protection
- Transient noise protection

General Specifications

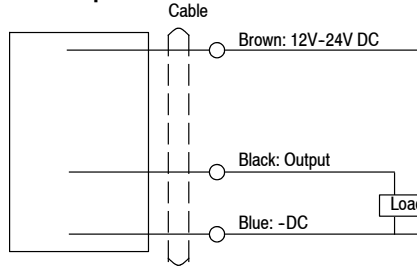
Relative Humidity	85% max	
Ambient Temperature	-13°F to +131°F (-25°C to +55°C)	
Housing Material	Noryl	
Operating Environment	NEMA 1, 12, 13 and IP65	
Approvals	UL listed and CSA certified, class 2 source required	
Weight	40 grams (1.4 oz)	42FA-F2LNA-A2 42FA-F2LPA-A2
	65 grams (2.2 oz)	42FA-F2LNA-P3 42FA-F2LPA-P3

Wiring

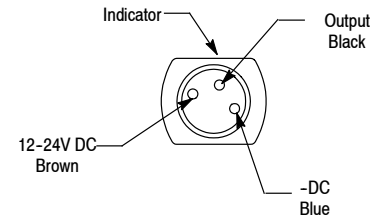
NPN Output



PNP Output



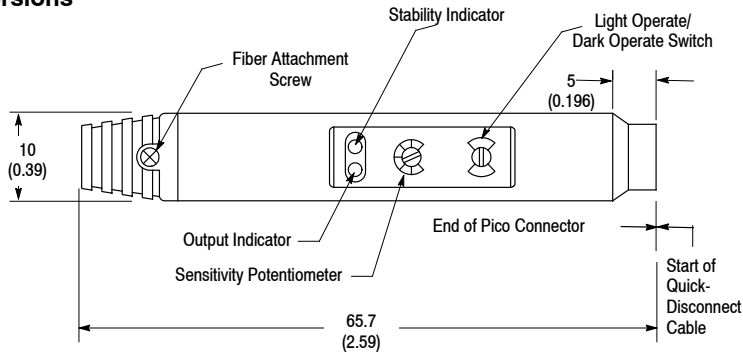
Connector



Dimensions—mm (inches)

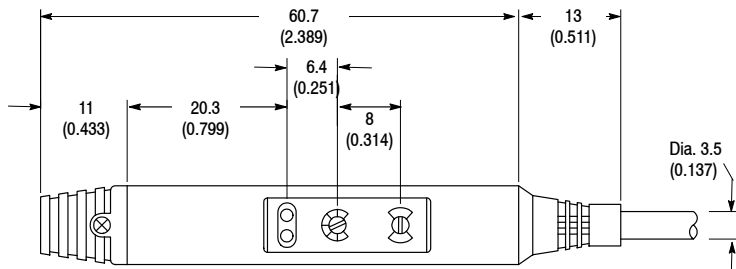
Pico Quick-Disconnect Versions

42FA-F2LPA-P3
42FA-F2LNA-P3



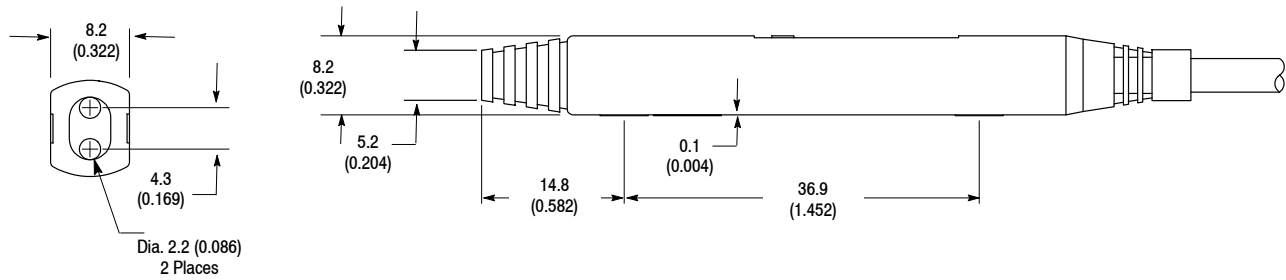
Cable Versions

42FA-F2LPA-A2
42FA-F2LNA-A2



Dimensions—mm (inches) (continued)

Tip, Side, Bottom View for Both Pico Quick-Disconnect and Cable Versions



Visible Red Fiber Optic	
Transmitting LED	Visible red 660nm
Connections	Cable: 42FA-F2LPA-A2 3-conductor 500V PVC 42FA-F2LNA-A2 jacketed cable 6.5ft (2m) Quick-Disconnect: 42FA-F2LPA-P3 3-pin pico style 42FA-F2LNA-P3

Visible Red Fiber Optic

Operating Voltage	Supply Current	Output Energized	Output Characteristics			Response Time	Catalog Number	
			Type	Max Load Current	Max Leakage Current		Cable	Quick-Disconnect
12-24V DC ±10%	25mA	Light/Dark Selectable	NPN	100mA	0.5mA	500µs	42FA-F2LNA-A2	42FA-F2LNA-P3
	30mA		PNP				42FA-F2LPA-A2	42FA-F2LPA-P3

Pico Quick-Disconnect Cables

Length	Allen-Bradley Catalog Number	Brad Harrison Catalog Number	Crouse-Hinds Catalog Number	Hirschman Catalog Number	Lumberg Catalog Number
6.56ft (2m)	871A-C53-P2	45300-001	5000125-3	973778-011	RKM3-62/2M
16.4ft (5m)	871A-C53-P5	45300-002	5000125-6	973778-012	RKM3-62/5M

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