

Fiber-Optic Switch (SW-FOP) Operating Instructions

AMS Controls uses highly accurate photo-optic switches for hole and edge-detect pick-ups. Each photo-optic switch uses an NPN output and the user can select between “light” and “dark” mode, depending upon the application.

The TIMER dip-switch must be set to OFF for all applications. The SET dip-switch must be set to D-ON when the photo-eye will be used as an edge-detect to look for the presence of the part. In this instance, the switch will signal the controller once it sees the leading edge of the part.

Please note: this switch is intended for lower-speed applications. For high-speed applications, please contact AMS Controls regarding the High-Speed Fiber-Optic Switch (SW-FOP-L)

Specifications

Operating Voltage: 12-24 VDC \pm 10%

Current: 40mA

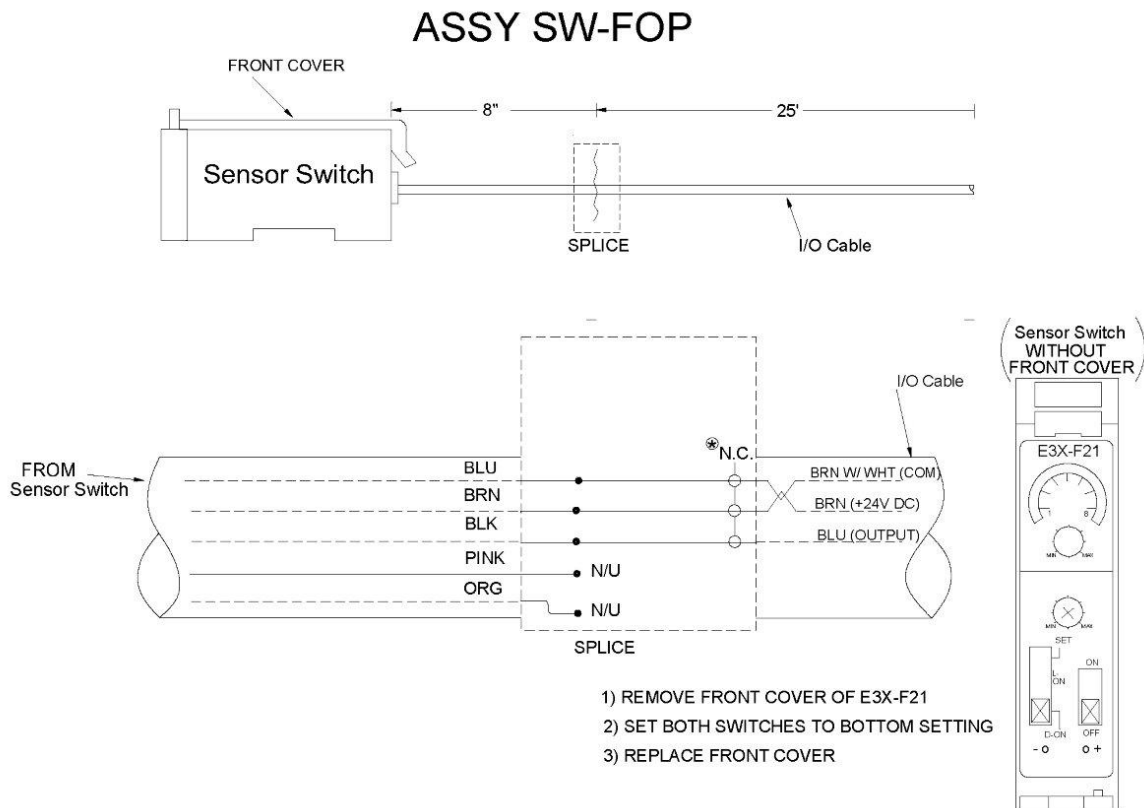
Switching Time: 20-30 μ s (0.00002-0.00003 seconds)

Sensing Range: 3.25” max.

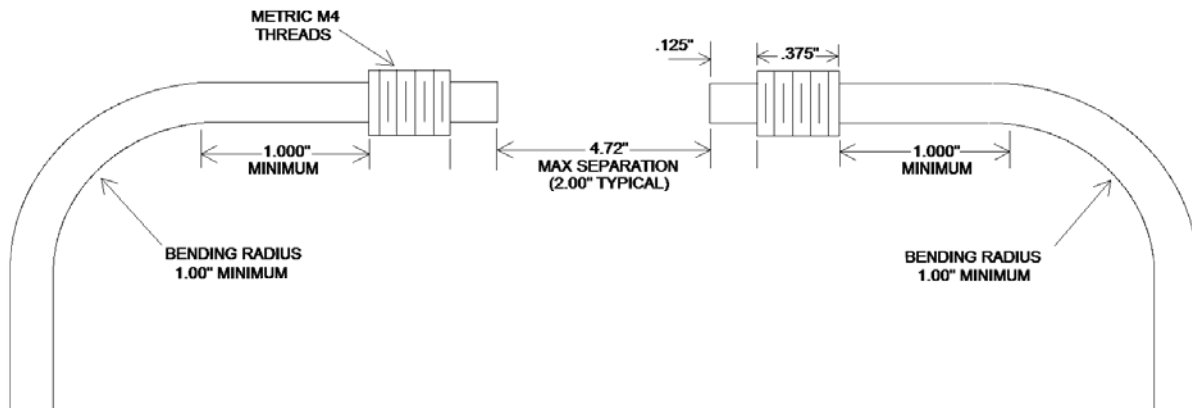
Minimum Bending Radius of Fiber-Optic Cable: 1”

Note: The fiber-optic cables have a minimum bend radius of 1”. Bending the cables into an arc tighter than 1” will break the cables and render them useless.

Wiring Diagram



Fiber-Optic Cable Drawing



Enclosure Dimensional Drawings

