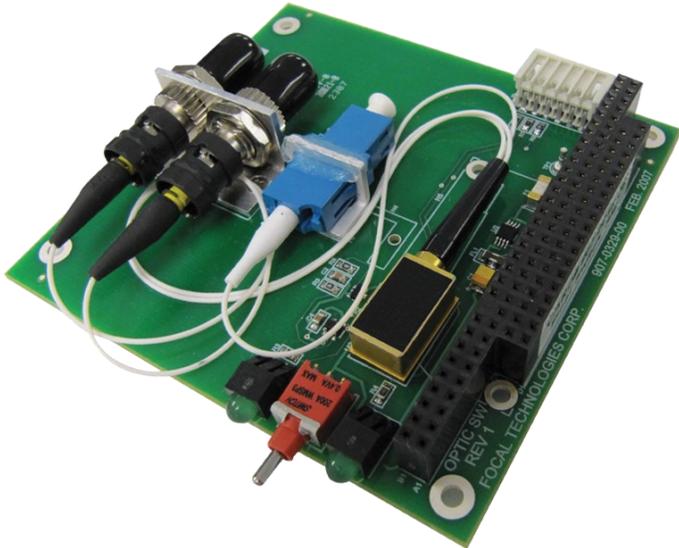


# Fiber Optic Switch

Model 907-FOS

Focal Technologies Corporation, a Moog Inc. company, has over 30 years of expertise in supplying standard and custom marine products for harsh environments and is a leading manufacturer of high performance and high quality multiplexers. Contact Focal for any assistance in selecting the best solution for your requirements.



The 907-FOS card is a 2 x 1 fiber-optic switch available in a PC/104 form-factor. When combined with a Focal™ 907-SPLIT fiber-optic splitter, they create a redundant fiber-optic path for multiplexer systems and other optical data links.

The 907-FOS is a powered fiber-optics card typically installed at the console end of the fiber-optic link. It is controlled by either a manual onboard toggle switch or with a TTL compliant input signal. The 907-FOS will select one of the two fiber-optic paths or outputs and route all communications to a single fiber.

## Features

- Supports ITU-T G694.2 CWDM wavelengths
- Manual or TTL controlled fiber-optic switch
- Singlemode or multimode versions available
- On-board LED indicating active fiber-optic link

## Benefits

- Creates a redundant fiber-optic link, improving system reliability
- Allows remote selection of active fiber

## Applications

- Failure resistant Remote Operated Vehicles (ROV)
- Pipe inspection robots
- Bomb disposal robots
- Video security systems
- Armored vehicles

# Specifications

Optical	
Fiber Type	Singlemode (9/125 μm) Multimode (50/125 μm and 62.5/125 μm)
Wavelength	1310/1550 nm, ITUT G694.2 CWDM
Return Loss	> 40 dB
Insertion Loss	< 1.0 dB
Switching Time	< 100 ms, including debounce
Electrical	
Power Voltage	+5.0 VDC ±10%, regulated
Power Current	0.07 A (typical), 0.09 A (max.)
Power Used	0.25 W (typical), 0.5 W (max.)
Protection	Overvoltage, reverse polarity, 1 A time delay fuse
Switch Control	TTL compatible 2.4 V threshold (others available)
Diagnostics	
LEDs	Power (electrical), active fiber

Mechanical	
Dimensions	PC/104 (form-factor only) 3.550" x 3.775"
Weight	< 120 g (0.26 lb)
Options	Custom enclosures
Connectors	
Optical	2 x ST in (F2, F3), 1 x LC out (F1)
Control and Power	6-pin Wago
Stacking Header	PC/104 (for stacking 907 cards only)
Environmental	
Temperature	0°C to +60°C (operational) -40°C to +85°C (storage)
Humidity	85% RH, non-condensing
Vibration	5 g, 25 - 1000 Hz, 3 axes
Shock	30 g, 11 ms, half-sine, 3 axes
Options	Extended temperature, stress screened or qualified

All specifications and information are subject to change without notice. Please contact Focal for the latest updates.

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