



IBS-102FX Series

➔ **Industrial 2-port optical bypass switch for fiber optical network with 4xLC duplex Connector**

Features

- Support 100M/1G/10G optical bypass function of 2 port duplex or 4 port simplex fiber connection
- Different models supported for multi-mode or single-mode optical fiber
- Low insertions loss
- Throughput not affected and no extra delay
- Bypass switching time < 10ms
- Dual wide-range power inputs: 12~48VDC
- Relay output for power failure warning
- Rigid IP-30 housing design
- DIN-Rail/Wall-mount installation



Introduction

IBS-102FX series are the external Bypass switches for 100M/1G/10G fiber optical networks. These fiber optical bypass switches protect the network from failures and subsequent maintenance by ensuring network integrity during power loss. Each of these fiber optical bypass switches includes Network ports and Monitor ports. The Network ports are used for connection to main-network connections and provide protection mechanism, and the Monitor ports are used for down-link local networking device. When the power is on, the operation mode of the Bypass switch is set to Normal, and the local networking device is connected with main-network. When power failure occurs, the Bypass switch is swiftly set to bypass mode to isolate the main-network from the local networking device.

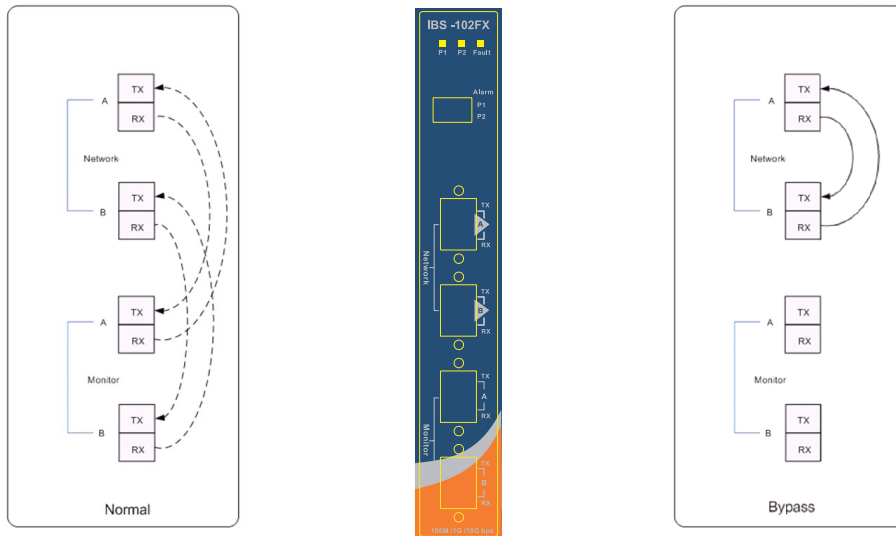
Practical Operation

Normal mode:

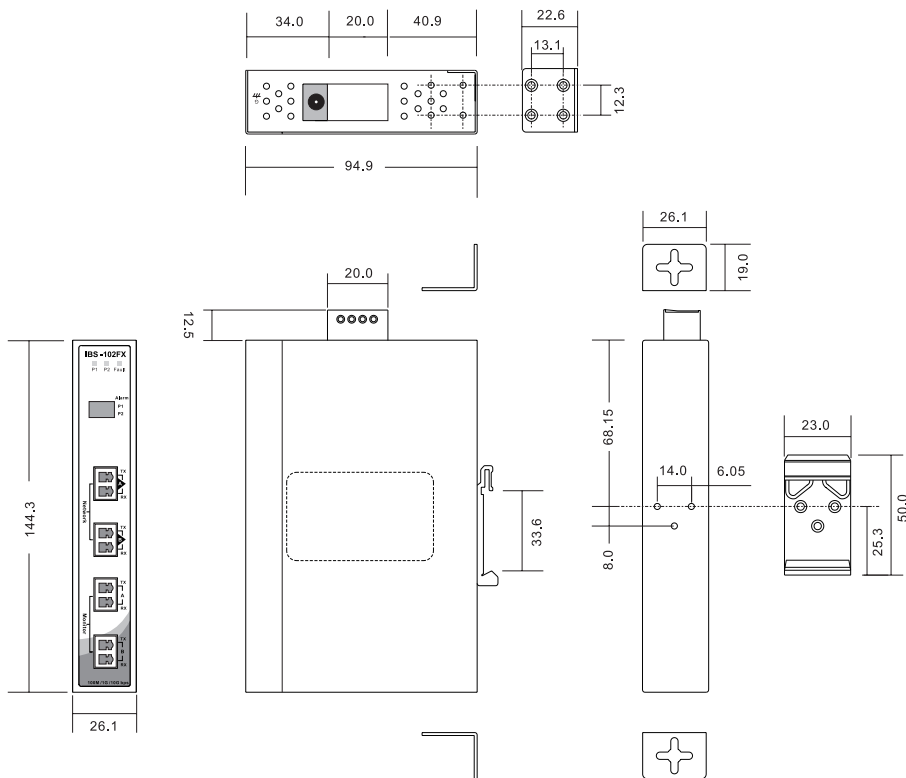
The Bypass switch diverts the data from the Network ports data to the Monitor ports.

Bypass mode:

The Network data traffic routed directly to the other Network port. And the Monitor data traffic routed directly to the other Monitor port.



Dimensions



(Unit=mm)

Specifications

| ORing Bypass Switch Model | IBS-102FX-SS-LC | IBS-102FX-MM-LC |
|---|--|--|
| Physical Ports | | |
| LC connector | 4 Duplex Single-mode LC connector | 4 Duplex Multi-mode LC connector |
| Fiber Ethernet | | |
| Optical Fiber | Single-mode: 9/125 μ m | Multi-mode: 50/125 μ m or 62.5/125 μ m |
| Operating Wavelength | 1260 ~ 1570 nm | 780 ~ 1350 nm |
| Insert loss | 1.6 dB | < 1.0 dB |
| Switch time | < 10ms | |
| DIP Switch Settings | | |
| DIP Switch No.1 | Power-1 failed warning detection – (On) relay enable (Off) relay disable | |
| DIP Switch No.2 | Power-2 failed warning detection – (On) relay enable (Off) relay disable | |
| LED Indicators | | |
| Power indicator | Green : power LED x2. | |
| Normal indicator | Green On : Operated in normal mode | |
| Fault indicator | Amber : Indicates power failure occurred | |
| Fault contact | | |
| Relay | Relay output for power failure warning | |
| Power | | |
| Input power | Dual 12~48 VDC power inputs at DC-Jack and 4-pin terminal block | |
| Power consumption (Typ.) | 2.7 Watts | |
| Overload current protection | Present | |
| Reverse Polarity | Present on terminal block | |
| Physical Characteristics | | |
| Enclosure | IP-30 | |
| Dimensions (W x D x H) | 26.1(W) x 94.9(D) x 144.3(H) mm (1.03 x 3.74 x 5.68 inch.) | |
| Weight (g) | 405g | |
| Environmental | | |
| Storage Temperature | -40 to 85°C (-40 to 185°F) | |
| Operating Temperature | -20 to 70°C (-4 to 158°F) | |
| Operating Humidity | 10% to 90% Non-condensing | |
| Regulatory Approvals | | |
| EMI | FCC Part 15, CISPR (EN55022) class A | |
| EMS | EN61000-4-2 (ESD), EN61000-4-3 (RS), EN61000-4-4 (EFT), EN61000-4-5 (Surge), EN61000-4-6 (CS), EN61000-4-8, EN61000-4-11 | |
| Shock | IEC60068-2-27 | |
| Free Fall | IEC60068-2-32 | |
| Vibration | IEC60068-2-6 | |
| MTBF (Hours) (MIL-HDBK-217F2, GB, GC, 25°C) | 1,246,758 | |
| Warranty | 1 year | |

Ordering Information

IBS-10 **A** FX-**BB** -LC

| Code Definition | Networking Port Number | Single mode or Multi mode |
|-----------------|------------------------|---|
| Option | - 2 : 2 ports | - MM : Multi-mode - SS : Single-mode |

| Available Model | Model Name | Description |
|---|-----------------|--|
| | IBS-102FX-MM-LC | Industrial 2-port bypass switch for fiber optical network with 4xLC duplex, multi-mode, LC connector |
| | IBS-102FX-SS-LC | Industrial 2-port bypass switch for fiber optical network with 4xLC duplex, single-mode, LC connector |
| Packing List <ul style="list-style-type: none"> • IBS-102FX • Wall-mount Kit • DIN-Rail Kit • Quick Installation Guide | | Optional Accessories (Can be purchased separately) <ul style="list-style-type: none"> • DR-45 series : 45 Watts DIN-Rail power supply • DR-75 series : 75 Watts DIN-Rail power supply • DR-120 series : 120 Watts DIN-Rail power supply • SDR-240-48, 240W DIN-Rail power supply • SDR-480-48, 480W DIN-Rail power supply • PAA-121000, 12VDC/1000mA 12W Power Adapter with universal 100 to 240VAC input, US plug • PAE-121000, 12VDC/1000mA 12W Power Adapter with universal 100 to 240VAC input, EU plug • FPC series : Fiber Patch cord |

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