

Technical Specifications

Fiber Optic Cable Type	Single mode
Optical Wavelength	1240 ~ 1640nm
Insertion Loss	≤1.0 (Typ 0.4) dB
Return Loss	≥ 50 (Typ 55) dB
Switch Speed	≤1, (Typ 0.5) ms
Repeatability	≤0.002 dB
Usb	1x mini USB Type B
Gpi	RJ45 connector with 2x GPI and 2x GPO
Power	+12VDC @ 1 W nominal - (supports 7 - 24VDC input range)
Physical	Size: 108 mm x 90mm x 22mm (4.25" x 3.54" x 0.86") incl. connectors Weight: 125g (4.4oz)
Ambient	5 - 40°C (41 - 104°F) 90% Humidity (non condensing)
Model #	OSW 1022 (EAN# 4250479327443)
Includes	Module, AC power supply



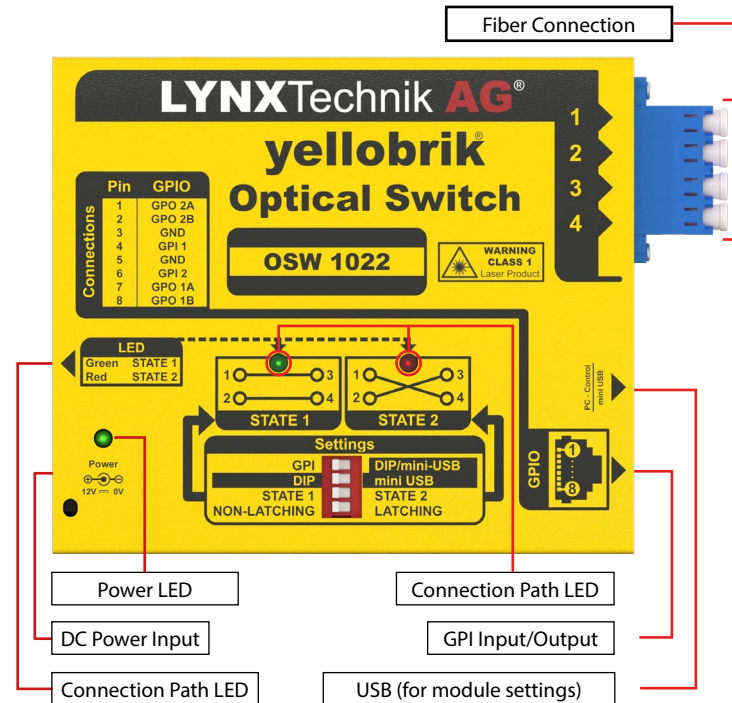
WARNING
CLASS 1M LASER PRODUCT
LASER RADIATION

Do not view directly with
optical instruments

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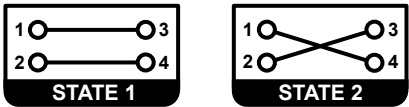
OSW 1022

2x2 Optical Switch



Connections

All connections are indicated on the module. The module supports two connection paths: State 1 and State 2.



The module offers 2 modes of operation, latching and non-latching.

Latching Mode: A pulse on GPI 1 will set the module to State 1 and a pulse on GPI 2 will set the module to State 2. In this mode, the module will remain in the set state even on power loss until a pulse on any GPI is applied.

Non-latching Mode: Closing the GPI2 will set the module to State 2 until the GPI 2 is opened or power is turned off. When the power is restored, the connection path (State) will be set according to GPI 2's status. DIP or mini-USB settings will work accordingly when configured on DIP switch.

The dip switches provide an option for the user to select the module control between GPI, local dip switches, or mini-USB. The dip switch configurations are as below:

GPI	☐	☒	DIP (mini-USB)	Selection between either GPI or Dip/Mini-USB control
DIP	☐	☒	mini USB	Selection between either DIP or Mini-USB control
STATE 1	☐	☒	STATE 2	Selection between State 1 or State 2 connection path
NON-LATCHING	☐	☒	LATCHING	Selection between Latching or non-latching mode

Operation

The OSW 1022 has four fiber LC connections and provides passive optical paths. The “green” LED on the module indicates “State 1” and the “Red” LED indicates State 2 connection path.

- Green State 1
- Red State 2

The OSW 1022 is hot swappable and hot pluggable.

Power

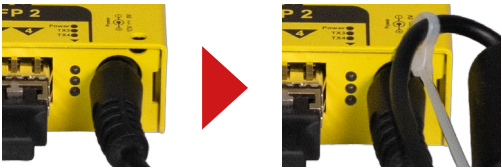
The module requires a 12V DC power input and the LED confirms when power is connected. A power supply is provided, however if you use your own power supply, please provide a clean DC power source between 7 and 24V. The OSW 1022 has a power consumption of approximately 1W nominal.

The power LED gives the following status:

- Green Power on / Settings = factory settings
- Yellow Power on / Settings ≠ factory settings
- Blink Locate function
- Off Power not present

Power Lead Strain Relief

Yellobrik modules have a small hole above the power connection to prevent the power lead from being accidentally pulled out. Secure the lead using the supplied tie-wrap as shown below.



Optional Mounting Solutions

The optional RFR 1001 mounting bracket allows the module to be installed on any surface and 19” rack rails.



The RFR 1200 rack frame can hold up to 14 yellobriks and can provide power redundancy for all installed devices.

