OSW1022_R01

yellobrik®

yellobrik® Quick Reference

Technical Specifications

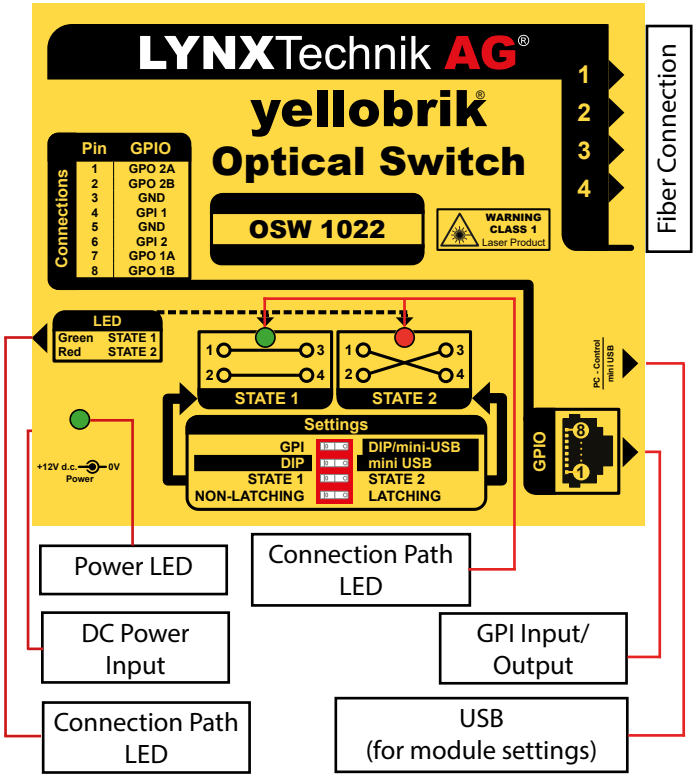
Fiber optic cable type	Single mode
Optical wavelength	1240 ~ 1640nm
Insertion Loss	≤1.0 (Typ 0.4) dB
Return Loss	≥ 50 (Typ 55) dB
Switch Speed	≤1, (Typ 0.5) ms
Repeatability	≤0.002 dB
USB	1x mini USB Type B
GPI	RJ45 connector with 2x GPI and 2x GPO
Power	+12VDC @ 1 W nominal - (supports 7 - 24VDC input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

We are constantly adding more yellobrik modules.
Please visit our website for the latest product updates.

www.lynx-technik.com

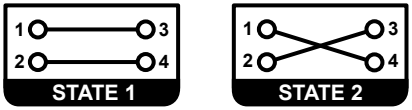
OSW 1022

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

The module (different module shown here) has a small hole in the case which is located above the power connection. Use the supplied tie-wrap and secure the lead as shown below. This prevents the power lead being accidentally pulled out.

Optional Mounting Solutions

The optional RFR 1001 mounting bracket can be used to permanently mount the module on any surface or on 19" rack rails.

The optional RFR 1000-1 rack mount can be used to permanently mount up to 14 yellobrik modules. One or two RPS 1001-1 power supplies should be ordered separately to provide primary and optional redundant power to all modules mounted in the rackframe.

Note: *OSW 1022 is identical in terms of mounting and securing.*