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Data Sheet

August 1, 2026

ILX LIGHTWAVE

ILX Lightwave MPS-8012 – Fiber Optic Source

ILX Lightwave MPS-8012 Fiber Optic Source The ILX Lightwave MPS-8012 is a single-channel continuous-wave fiber optic source. It contains one factory-configured fiber-coupled laser or LED. Wavelength and output power are not user adjustable. Closed-loop feedback stabilizes output power (photodiode feedback for lasers; drive-current feedback for LEDs). Standard coupling is to 9/125 μ m single-mode fiber with FC/PC bulkhead (other connector options available). The dual-channel companion is the MPS-8024. Shared user manual: MPS-8012/24. The ILX Lightwave MPS-8012 is a single-channel continuous-wave fiber optic source. It contains one factory-configured fiber-coupled laser or LED. Wavelength and output power are not user adjustable. Closed-loop feedback stabilizes output power (photodiode feedback for lasers; drive-current feedback for LEDs). Standard coupling is to 9/125 μ m single-mode fiber with FC/PC bulkhead (other connector options available). The dual-channel companion is the MPS-8024. Shared user manual: MPS-8012/24. Research and production optical testing; stable CW fiber stimulus for component characterization and power meter checks; fixed-wavelength lab sources.

No photo

MODEL

**ILX Lightwave
8012**

CALIBRATION

**N/A — off-catalog
OEM datasheet**

CONDITION

**See OEM
documentation**

STATUS

**Not listed on
Aumictech
inventory**

RFQ / SKU

8012

LISTING

**Off-catalog — OEM dat
asheet only**

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

Features & description

From manufacturer datasheet

Features

- Single fiber-coupled CW source
- Factory-installed LED or laser options (see option table)
- Closed-loop power stability
- Hardware current limit and transient protection
- Removable/tilt-out bulkhead for connector cleaning
- Class 1 laser product

8012 Characteristics / Specifications

PARAMETER	VALUE
Model	MPS-8012
Manufacturer	ILX Lightwave
Instrument Type	Single-channel CW fiber optic source
Channels	1
Operating Mode	Continuous wave only
User Adjustable Wavelength/Power	No (factory set)
Fiber	9/125 um standard
Connectors	FC/PC standard; FC/APC, SC/PC, SC/APC, ST options
Size (HxWxD)	2.6 in / 66 mm x 5.6 in / 142 mm x 9.0 in / 229 mm
Weight	typically 3.25 lb / 1.5 kg
Power	100-115 VAC or 220-240 VAC, 50-60 Hz, 35 W max (factory set; marked on rear)
Operating Temperature	10 to 40 C
Storage Temperature	-40 to 70 C
Humidity	less than 95% RH non-condensing
Fuse	1/8 A, 3AG, 250 V SLO-BLO Source Option Examples (Table 1.1; install-dependent) 013: 1310 nm LED +/-20 nm; typical -10.0 dBm / 100 uW; stability +/-0.1 dB / 15 min, +/-0.5 dB / 24 h 015: 1550 nm LED +/-20 nm; typical -17.0 dBm / 20 uW; +/-0.1 dB / 15 min, +/-0.5 dB / 24 h 113: 1310 nm FP +/-20 nm; typical 0.0 dBm / 1.0 mW; +/-0.03 dB / 15 min, +/-0.05 dB / 24 h 115: 1550 nm FP +/-20 nm; typical -3.0 dBm / 500 uW; +/-0.05 dB / 15 min, +/-0.1 dB / 24 h 213: 1310 nm DFB +/-20 nm; typical 0.0 dBm /
Power stability	Hardware current limit and transient protection - Removable/tilt-out bulkhead for connector cleaning - Class 1 laser product

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	40 to 70 C
Operating temperature	10 to 40 C
Operating Temperature	10 to 40 C
Humidity	less than 95% RH non-condensing
Fuse	1/8 A, 3AG, 250 V SLO-BLO Source Option Examples (Table 1.1; install-dependent) 013: 1310 nm LED +/-20 nm; typical -10.0 dBm / 100 uW; stability +/-0.1 dB / 15 min, +/-0.5 dB / 24 h 015: 1550 nm LED +/-20 nm; typical -17.0 dBm / 20 uW; +/-0.1 dB / 15 min, +/-0.5 dB / 24 h 113: 1310 nm FP +/-20 nm; typical 0.0 dBm / 1.0 mW; +/-0.03 dB / 15 min, +/-0.05 dB / 24 h 115: 1550 nm FP +/-20 nm; typical -3.0 dBm / 500 uW; +/-0.05 dB / 15 min, +/-0.1 dB / 24 h 213: 1310 nm DFB +/-20 nm; typical 0.0 dBm /

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications

Specifications

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Humidity	less than 95% RH non-condensing
Fuse	1/8 A, 3AG, 250 V SLO-BLO

Source Option Examples (Table 1.1; install-dependent)

013: 1310 nm LED +/-20 nm; typical -10.0 dBm / 100 uW; stability +/-0.1 dB / 15 min, +/-0.5 dB / 24 h

015: 1550 nm LED +/-20 nm; typical -17.0 dBm / 20 uW; +/-0.1 dB / 15 min, +/-0.5 dB / 24 h

113: 1310 nm FP +/-20 nm; typical 0.0 dBm / 1.0 mW; +/-0.03 dB / 15 min, +/-0.05 dB / 24 h

115: 1550 nm FP +/-20 nm; typical -3.0 dBm / 500 uW; +/-0.05 dB / 15 min, +/-0.1 dB / 24 h

213: 1310 nm DFB +/-20 nm; typical 0.0 dBm / 1.0 mW; +/-0.03 dB / 15 min, +/-0.05 dB / 24 h

Power stability after 1 hour warm-up; long-term at 25 C +/-1 C; short-term at constant 25 C.

Example Field Configuration

Secondary-market units commonly appear as 1310 nm FP laser sources with FC/APC or FC/PC connectors meeting the original approximately 1 mW output class.

Standard Operating Conditions

Warm up at least one hour before use. Operate only with patchcord attached or bulkhead capped. Do not look into the beam.

Operational Notes

Source type is labeled above the bulkhead. Output is not optically isolated. Period product announcements also describe 8012/8024 family coverage from about 670 to 1550 nm with outputs as high as about +3 dBm depending on option; use the faceplate option code and Table 1.1 for the installed device.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: N/A — off-catalog OEM datasheet. See OEM documentation · Not listed on Aumictech inventory.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.