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Data Sheet

August 15, 2026

ILX LIGHTWAVE

ILX Lightwave CSM-39010: 100 mA Current Source Module

Display: mainframe front panel readout class Remote Control: GPIB or USB via mainframe class Stability Class: low drift current source class Numeric and capability rows from ILX Lightwave CSM-39010 / CSM39010 100 mA current source module product descriptions. Exact compliance voltage and noise density are on the CSM-39010 datasheet. Remote Control: GPIB or USB via mainframe class Stability Class: low drift current source class Numeric and capability rows from ILX Lightwave CSM-39010 / CSM39010 100 mA current source module product descriptions. Exact compliance voltage and noise density are on the CSM-39010 datasheet.



MODEL

**ILX Lightwave
CSM-39010**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

CSM-39010

LISTING

<https://aumictechlabs.com/products/csm-39010-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The ILX Lightwave CSM-39010 is a precision 100 mA current source module engineered for laser diode characterization and control in research, development, and production test environments. This modular unit installs into compatible ILX Lightwave mainframes - such as the LDC-3900 Modular Laser Diode Controller - and delivers stable, low-noise current output to sensitive optical and electronic components. Technical Specifications Output Current: Up to 100 mA Compliance

Voltage: 7 V maximum (fixed) Short-Term Stability (1 hour): < 10 ppm Long-Term Stability (24 hours): < 50 ppm Temperature Coefficient: < 50 ppm/°C Key Features Fixed 7 V compliance voltage ensures predictable headroom for laser diode bias networks Sub-50 ppm stability over 24 hours minimizes drift during extended measurement campaigns Service-free modular design integrates directly into LDC-3900 bays without external cabling complexity Photodiode feedback inputs via 9-pin D-connector (pins 6 and 7) or dedicated BNC connector support closed-loop control architectures Adjustable photodiode reverse bias (0–5 V) enables flexible detector biasing strategies Typical Applications Laser diode dynamic and static characterization Optical power monitoring and stabilization Production burn-in and reliability testing of optoelectronic devices Bench-level component evaluation requiring precision current control Compatibility & Integration The CSM-39010 occupies one of four available bays in the LDC-3900 controller and is field-interchangeable with other compatible current source and temperature control modules. Laser diode connections are made via the rear-panel 9-pin D-connector. Note: This product is obsolete and no longer manufactured or supported by ILX Lightwave. Replacement units, service, repair, and calibration are unavailable from the original manufacturer.

CSM39010 Characteristics / Specifications

PARAMETER	VALUE
Model	CSM-39010
Alternate Model	CSM39010
Instrument Type	precision current source module
Current Range	100 mA
Mainframe Family	ILX Lightwave modular controllers
Function	CW current source for laser diodes
Setability Class	fine uA class resolution OEM
Compliance Voltage Class	LD driver compliance class
Noise Class	low noise LD current class
Modulation Class	analog modulation input class optional
Form Factor	ILX CSM plug-in module
Series Family	ILX CSM-390xx
Related Models	TLS-8802 FOA-79722 FOS-79800
Operating Temperature Class	0 C to 40 C lab class
Power Source	powered by ILX mainframe
Use Case	laser diode current drive
Interlock	laser safety interlock support class
Display	mainframe front panel readout class
Remote Control	GPIB or USB via mainframe class
Stability Class	low drift current source class
Protection	open circuit and limit class
Humidity Class	noncondensing
Operating temperature	Class: 0 C to 40 C lab class
Humidity	Class: noncondensing

CSM39010 Specifications

PARAMETER	VALUE
Applications	Precision laser diode CW drive, LED characterization, and modular optical source control in ILX chassis.
Key Features	100 mA precision current source
Technical Specifications	Model: CSM-39010

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: 0 C to 40 C lab class
Operating Temperature	Class: 0 C to 40 C lab class
Humidity	Class: noncondensing
Operating Temperature Class	0 C to 40 C lab class
Power Source	powered by ILX mainframe
Use Case	laser diode current drive
Interlock	laser safety interlock support class
Display	mainframe front panel readout class
Remote Control	GPIB or USB via mainframe class
Stability Class	low drift current source class
Protection	open circuit and limit class
Humidity Class	noncondensing Notes Numeric and capability rows from ILX Lightwave CSM-39010 / CSM39010 100 mA current source module product descriptions. Exact compliance voltage and noise density are on the CSM-39010 datasheet.

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	
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Notes	
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Laser Safety

laser safety interlock support class Display: mainframe front panel readout class Remote Control: GPIB or USB via mainframe class Stability Class: low drift current source class Protection: open circuit and limit class Humidity Class: noncondensing Notes Numeric and capability rows from ILX Lightwave CSM-39010 / CSM39010 100 mA current source module product descriptions. Exact compliance voltage and noise de

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

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

Aumictech

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

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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.