

Wire Scanners

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Troubleshooting and Recovery articles for wire scanners

How to detect and fix MPS faults

Physics Requirements Documents

LCLS : [Physics Requirements Document 1.1-323](#) (PDF Format)

LCLS-II : [Injector/Linac Wire Scanner System Requirements](#) (LCLSII-2.4-PR-0099)

[LCLS-II General Motion and Fast Wire Scanner Controls requirements](#) (LCLSII-2.7-PR-0808)

Engineering Design Documents

LCLS : [Mechanical Engineering Specifications Document 1.3-105](#) (PDF Format)

[Controls Engineering Specification Document](#)

LCLS-II : [LCLS-II General Motion and Fast Wire Scanner Engineering Specifications](#) (LCLSII-2.7-ES-0809)

How-To Documents

Hardware

- [Ensemble CP Manual](#).
- [Ensemble CP Chassis Drawing](#)
- [Ensemble Help Files](#)

[Software](#) - Need to revisit

Configuring Controls Hardware

Motion control hardware includes electronics, cabling, termination and transition panels and controller software.

It includes LVDT equipment for position readback for slow wire scanners and encoders for fast and slow wire scanners.

Wire scanner subsystems also require synchronisation with ADCs which determine the beam characteristic like size when it interacts with the wire.

- [Hardware Configuration](#) - VME
- [Hardware Configuration](#) - Aerotech

Detectors for Wire Scanners

Notes on Wire Scanner [Detector Positions and Requirements](#)

[NC Injector Wire Scanner Detectors](#)

Long Beam Loss Monitor Detectors for SC Wire scanners

Trigger assignment for LCLS-II Wire Scanners

Notes: [Trigger assignments](#)

(give to Shawn)

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- [XPS GPIO Configuration](#)