INSTRON®

The difference is measurable®

SAFETY LIGHT CURTAIN

Protecting Operators in the Test Space

Instron® safety light curtains help protect operators by reducing the risk of pinch hazards in the test space. An invisible infrared field covers the front entry to the test space at all times. In setup mode, crosshead speed is automatically limited. During testing, crossing the field disables the frame and stops all motion immediately. Safety light curtains integrate fully with the 6800 Series handset and Bluehill® Universal software, so labs can improve operator safety and maintain the throughput they need.

CONTINUOUS PROTECTION FOR HIGH-THROUGHPUT TESTING

The infrared field monitors the front entry to the test space continuously. With no mechanically interlocked door to open or close between specimens, operators move in and out of the test space freely. Fixture changes and specimen handling require no extra steps. This makes safety light curtains well suited to high-throughput testing and labs with frequent changeovers.

KEY FEATURES

- **Continuous Access:** There is no mechanically interlocked door to open and close — operators move in and out of the test space freely while the infrared field stays active, ready to stop crosshead movement the instant the field is crossed.
- **Fast Testing:** A single button press on the handset starts the test — no separate interlock step required.
- **Smart Speed Limiting:** In setup mode, crosshead speed is automatically limited to 600 mm/min, and crossing the field limits motion. During testing, crossing the field disables the frame and stops all motion.
- **Ergonomic Improvement:** Reduces repetitive motion and fatigue during high-volume testing.
- **Safety Indicators:** Integrates with the Instron 6800 Series handset and Bluehill Universal software's color-coded indicators for real-time machine status.

Note: The light curtain protects against crush and pinch hazards from moving system components; it does not protect against flying debris or specimen fragments. If a test carries debris risk — brittle or composite materials, for example — a full shield with an interlock door is recommended.



CP135426 — Frame-Mounted Light Curtain

EXCELLENT RELIABILITY

Built to perform in demanding test labs and manufacturing environments. Non-contact monitoring means no mechanical switches to wear out, for longer service life than moving guard components. Instron® light curtains resist dust, water, oil, and other contaminants common in industrial and lab settings, with high-power lenses that maintain reliable detection even when splashed or exposed to airborne particulates.

FRAME-MOUNTED LIGHT CURTAIN

CP135426	3400 and 6800 Series Dual Column Table Model Frames

FULL SYSTEM LIGHT CURTAIN ENCLOSURES

CP140310	3400 and 6800 Series Single Column Frames
CP137603	3400 and 6800 Series Single Column Frames with Extended Front Clearance
CP139513	3400 and 6800 Series Dual Column Table Model Frames (standard height, standard width) — full enclosure with left and right side doors



CP140310 — Full System Light Curtain Enclosure

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