Danaher — Timers and Controllers

SS950-16010



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The **SS950-16010** is a through-beam safety light curtain produced by Danaher for the Timers and Controllers series. It is installed along conveyor edges, press openings, or assembly cells to create a vertical optical barrier that halts or diverts machine motion when an object enters the monitored area. By combining a transmitter and receiver in a matched pair, the product delivers an electrical output compatible with industrial safety relays and programmable safety controllers, allowing noncontact safeguarding of personnel and workpieces in automated lines.

The sensing grid uses a beam spacing of **0.5 in**, allowing the system to register an opaque target that interrupts the required beam pattern. At a maximum sensing distance of **30 ft** between the two rails, the curtain maintains reliable alignment, allowing large machine fronts to be guarded without mirrors. The system recognizes objects down to **1 in** in diameter because the emitter array and synchronization logic combine adjacent beam data. From an optical interruption to an output change, the electronics require no more than **23 ms**, limiting the reaction distance for moving hazards. The light source has a peak output of **880 nm**, which is in the infrared region and resists visible-light interference. A rectangular aluminum profile with a 1.25 × 1.82 in cross section houses the circuit boards and optics.

The unit is suitable for general factory conditions. All circuitry operates at temperatures up to **50 °C** without derating, and the sealed end caps achieve an **IP65** rating that blocks dust ingress and low-pressure water jets. Illumination is provided by an **infrared LED**, eliminating the need for high-voltage flash tubes and extending service intervals. The protected height of **16 in** covers the active portion of the array, while the passive support

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sections raise the housing height to 18.25 in and extend the overall height to 21.20 in. This additional housing length allows the mounting brackets to clear guard frames.

Specifications

Beam Spacing:	0.5 in	**Cross-section:**	1.25 × 1.82 in	**Housing Height:**	18.25 in
Ingress Protection:	IP65	**Light Source:**	Infrared LED	**Maximum Operating Temperature:**	50 °C
Maximum Response Time:	23 ms	**Maximum Sensing Distance:**	30 ft	**Minimum Object Size:**	1 in
Overall Height:	21.20 in	**Peak Emission Wavelength:**	880 nm	**Protected Height:**	16 in
Last Verified:	11/14/2026 8:08 AM				

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Shipping Options

Payment Methods

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