Danaher — Timers and Controllers

HLLA-1



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The **HLLA-1** is a mechanically actuated control switch produced by Danaher for the Timers and Controllers series. It uses a cam-driven mechanism to translate machine movement into an electrical signal, which lets automation equipment acknowledge position limits, index points, or process timing events. A single pole inside the housing opens or closes according to cam rotation, providing a compact method for integrating positional feedback into conveyors, presses, or assembly fixtures.

The contacts can continuously carry **25 A** on alternating-current circuits, and the insulation withstands up to **600 V AC** without flashover. Direct-current loads are supported at **10 A** with a maximum voltage of **250 V DC**; these ratings accommodate many solenoids, relays, and indicator lamps used in control cabinets. A factory-fitted normally closed contact uses a **double-break architecture**, so the contact separates in two places to improve arc extinction and extend the service life of the silver contact faces. The design is single-acting, meaning motion in only one direction trips the mechanism. Oil-impregnated bearings stabilize the camshaft, while the spring system is tuned for a left-hand lever orientation to support standardized panel layouts.

The mechanical interface uses a **roller lever** actuator with a steel roller that follows the machine cam. The lever sweeps through **50°** of travel to reach the over-center point. The housing has **two conduit entry holes** that provide flexible routing for armored or flexible cable, while the molded body helps keep moisture away from the silver contacts. The cam is molded from **Bakelite**, providing dimensional stability and electrical insulation in humid or high-temperature environments. An internal linkage couples the cam to the contacts, and the compact switch

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body can be mounted beside aluminum, steel, or composite framing members.

Specifications

Ac Carry Current:	25 A	**Actuator Type:**	Roller Lever	**Bearing Lubrication:**	Oil Impregnated
Cam Material:	Bakelite	**Conduit Hole Count:**	2	**Contact Break Type:**	Double Break
Contact Material:	Silver	**Dc Carry Current:**	10 A	**Factory Contact Configuration:**	1 NC
Lever Orientation:	Left Hand	**Lever Travel:**	50°	**Maximum Ac Voltage:**	600 V AC
Maximum Dc Voltage:	250 V DC	**Operating Action:**	Single Acting	**Pole Count:**	1
Roller Material:	Steel	**Last Verified:**	11/15/2026 3:54 AM		

Contact Us

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