Danaher — Timers and Controllers

STDS002



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The **STDS002** is an electronic time controller produced by Danaher within the Timers and Controllers series. It is designed to record elapsed intervals for machine cycles, conveyors, or batch processes where precise timing feedback is needed for PLC logic or operator review. The unit accepts quadrature or single-channel sensor pulses, interprets them as elapsed time, and shows the result on a front-panel numeric display. This display provides real-time confirmation that each stage of an automated sequence is progressing within the expected time range.

The display uses a character height of **0.56 in** and a bright **red LED** array, making numeric values legible across typical control-room distances. Five characters are provided, allowing the controller to present up to 99,999 counts before rollover. Incoming pulse accuracy is supported by an input resolution of **60 PPR**. This pulse-per-revolution value is compatible with common encoder outputs and establishes the minimum increment available for interval measurements. The input stage tracks signals up to **10 kHz**, allowing short intervals to be measured during conveyor indexing or high-speed cutoff operations. For proximity or photoelectric sensors, an internal power supply delivers **12 VDC**, eliminating the need for an external sensor power rail and simplifying cabinet wiring.

Total apparent power consumption is limited to **6 VA**, so multiple units can share a low-capacity control transformer without overloading it. When sensors draw power from the onboard source, the controller can supply up to **125 mA**, which is adequate for two typical inductive proximity switches. The timing algorithm uses a time-interval measurement method to provide millisecond-level resolution across an operating temperature range from 0 °C to **50 °C**. The controller uses a panel-mount bezel that fits a standard 1/8-DIN opening. Its width is **96 mm**, its height

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is 50 mm, and its housing extends 132 mm behind the panel. These dimensions keep enclosure depth requirements modest while providing a readable front display.

Specifications

Apparent Power:	6 VA	**Digit Height:**	0.56 in	**Display Type:**	Red LED
Height:	50 mm	**Housing Depth:**	132 mm	**Input Resolution:**	60 PPR
Maximum Input Frequency:	10 kHz	**Maximum Operating Temperature:**	50 °C	**Maximum Sensor Supply Current:**	125 mA
Measurement Method:	Time Interval	**Minimum Operating Temperature:**	0 °C	**Mounting Type:**	Panel Mount
Nominal Sensor Supply:	12 VDC	**Number Of Digits:**	5	**Width:**	96 mm
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