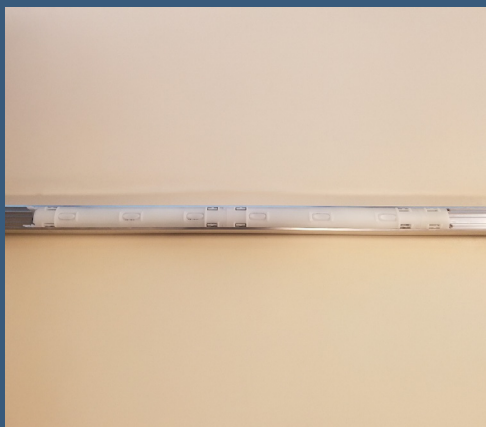




Button Panel

Project Timeline: 7 Months



OVERVIEW

This pick-to-light system features a low-profile 9" light stick with 9 LEDs and 3 ultra-durable buttons rated for 30 million cycles. Units snap in and out easily with secure daisy-chain interlocks, ensuring reliable electrical connections and quick replacement. The design integrates with existing controls, uses single-direction molds for low-cost manufacturing, and includes a double-sided SMT PCA.

DESIGN AND DEVELOPMENT

New Product Introduction

- Defined critical features and process parameters
- Conducted system tolerance and key characteristic analysis
- Performed DFMEA to identify and mitigate risks

Mechanical Design & Development

- Finalized industrial design per customer specs
- Completed full mechanical design and development
- Supported plastics, tooling, and manufacturing processes
- Developed test and quality plans

Design Verification & Qualification

- Created product specs, DVT, and qualification plans
- Conducted first article inspections and pilot/production testing
- Reviewed data and updated designs as needed
- Logged all test results in a centralized database

Production

- Developed and qualified in-process factory test procedures
- Implemented full product quality plan



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