

APPLICATION BREAKDOWN:



Safety System Design

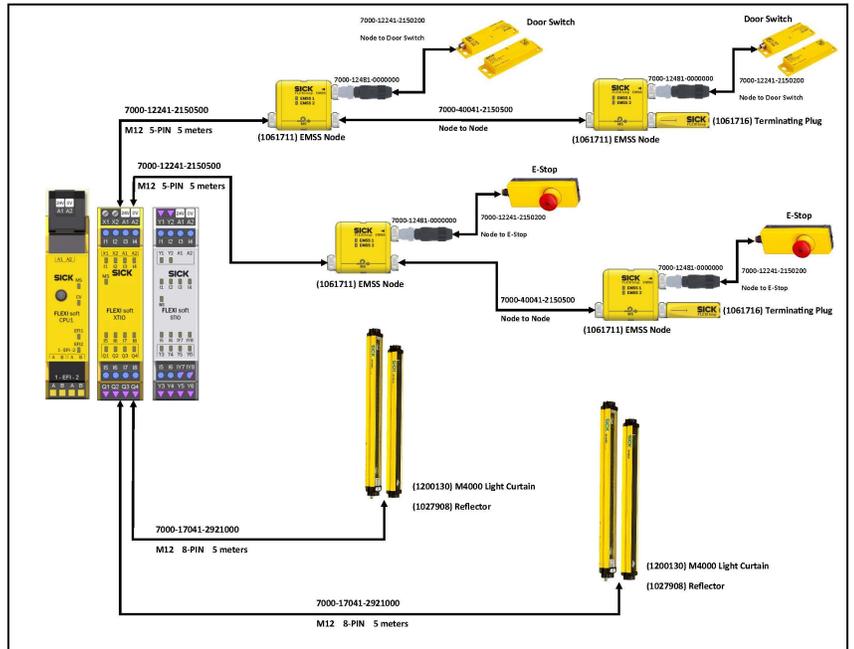
A consumer packaged goods (CPG) manufacturer wanted to design a robotic work cell to improve productivity, however they faced a safety challenge. The CPG wanted to not only make the cell as safe as possible, but also improve the other more convoluted multiple relay, multiple circuit componentry they had used in the past. The cell needed to have two points accessible by forklifts, hard-guarding, multiple operator Emergency Stops and 2 doors for personnel access. To aid in their design, the CPG turned to the experts at Sensors Incorporated.

In evaluating this application, Sensors Incorporated knew that the best solution to the customer would be to create a system, rather than just improve upon components. With that in mind, Sensors called upon its many years of safety system experience to design a solution that would not only be as safe as possible, but would turn their customers complex situation into a simple, well-integrated system.

After the sales and engineering teams had their design in mind, they used software to visualize it, even identifying the specific products that would be necessary to make the system work, as laid out in the diagram above (and in full-page on the back). To offer a complete system solution, Sensors Incorporated opted to use Sick's Flexi Soft Controller, this powerful product enables all the components in a system (including many non-Sick safety products) to be integrated into a central controls point. The system utilized Sick Flexi Loop nodes to daisy-chain the door switches and emergency stops, while still providing individual component monitoring and feedback back to the controller. The nodes and light curtains are integrated into the controller via Murr standard M12 cables.

The safety system designed by Sensors Incorporated is an overall simple, integrated, and efficient solution. Specifically, wiring is simplified through the use of 'plug and play' standard M12 cabling from Murr, and controls are simplified because the Flexi Soft Controller offers individual discrete outputs directly to any major brand of PLC on the market. Programming was improved and simplified through the centralized controller, as all programming can now be done from a central point and the actual safety of the system was improved upon through individual component monitoring provided by the safety controller.

Ultimately, rather than simply selling components, Sensors Incorporated can design a unified safety solution that integrates directly into your existing controls architecture while simplifying, consolidating and improving upon traditional safety setups.



Full Page Diagram on Page 2

If you have a complex application that might require extreme application experience, or extensive safety knowledge, call the experts at Sensors Incorporated. Solving Applications since 1977.



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