



Project

Panel Mount Indicator for welding & drilling machine.

Background

The Laser Spot Welding & Drilling Machine is an essential tool for any modern auto manufacturer, and our customer needed to outfit their new machines with the proper equipment to uphold their high safety standards.

Developments in lasers and beam machinetchnology are expanding the range of metals that may be welded successfully, and are substantially more cost effective than other options on the market.

Spot welding, seam welding and drilling can all be made more efficient through its use, and many of the options can be retrofitted into existing systems.

With new technology comes new requirements for ensuring safety in the workplace; in recent years the industry as a whole has strived to manufacture safer vehicles in safer work conditions, and our customer contacted us when they needed help achieving these goals.

Application Characteristics

VCC is aware that the auto industry is trending toward a more technology-enabled manufacturing process, and is making it a priority to keep up with the latest technology.



VCC was approached with a specific set of requirements for what the customer would require in the outfitting of their new machines with visual indication.

The tools needed to be able to survive rugged conditions and communicate status to workers in a particular way, with a wide enough viewing angle that would not hinder the work done on the floor.



Solution & Design

Working closely with the customer, VCC took pains to not only understand the use of the specific device, but also deliver a product that would excel the customer's expectations.

Temporal pulse shaping, aluminum welding, high brightness applications, battery manufacturing, solder mask stencil manufacturing and polymer welding were all actions the customer would be using the Fiber Laser for, and the team at VCC first began by researching the specifications of the machine in question.

With this information in hand, the CNX 714FV all-in-one indicator with connector was recommended to



be a great fit for the harsh, industrial environment of auto manufacturing.

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Case Study

The design is built around a 14mm ruggedized LED indicator, which is key for communication to the worker and using communication of light for safety purposes.

The indicator is mounted in a robust chassis and has a wide viewing angle, and is built around a moisture-sealed lock that is resistant to shock and vibration.



CNX714FV

Developed for harsh environments, the 14mm CNX714 FV Series LED indicator is resistant to shock and vibration, and is moisture sealed for outdoor applications. The IP67 rated panel mount indicators have a long operational life.

The series provides illumination for applications that require consistent identification and communication through light, and achieves full brightness in microseconds.



Available with voltages ranging from 5V to 28V, the CNX714 Series maximizes the options available to engineers and designers.

Fast-pitch threads ease assembly, which leads to the reduction in assembly time and delivers cost savings.

Results & Benefits

VCC's illuminated components allow the industrial operators to make better, more informed decisions.

Through communication with light via the illuminated communicator control panel, operators have better control of systems, ensuring proper performance and increasing safety.



Value-added Service

As a value-add, VCC was able to add the customer-specified terminals and connectors at a lower cost than if it were done in-house.

VCC understands the importance of visual communications and brings value to your design challenge.

VCC takes the time to fully understand new technologies, and with that knowledge in hand our sales team makes sure our customers are given the best possible customer service and product fit.

VCC becomes an extension of your design team and can provide technical advice to ensure your indicators meet mechanical, electrical and optical requirements.

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