



Case Study

Optical Lens Surface Generator. *Depends on EAO's HMI Components Expertise.*

National Optronics was looking for a HMI System for its Axiom Surface Generator lens surfacing equipment. EAO works with them to provide the HMI Components.

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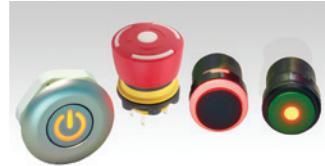
Company Profile

Customer
National Optronics

Market
Optical lens processing equipment

Application
Optical plastic lens surface generation

EAO Series
Series 84 ring illuminated pushbuttons
Series 84 E-Stop



Series 84 products provide a low-profile, stylish appearance, while maintaining a high level of control to increase operator productivity and avoid costly downtime.



The Series 84 E-Stop’s low back-of-panel depth allows for use in space constrained applications.

Business Challenge

National Optronics provides lens processing equipment that incorporates patented dry-cutting plastic lens technology in an innovative, easy-to-use, small footprint configuration. National Optronics offers surface generator, blocker, tracer, and machining centre equipment for processing plastic lenses in optical laboratories, optical superstores, chains/multi-location retailers, and government facilities.

National Optronics was looking for a Human Machine Interface (HMI) System for its Axiom Surface Generator lens surfacing equipment. The Axiom has a compact, tabletop footprint with an ergonomic design. It can handle a variety of different lens curves with a minimum space requirement, making it a good fit for office/store applications. It provides high-speed lens surfacing, automatic lens cribbing and pin-bevelling, and cuts lap tools.

National Optronics was looking for a compact and simple operator interface that would make training and operation of the Axiom easy and allow operators to take full advantage of the system’s speed and reliability.

Solution

EAO works with National Optronics to provide the HMI Components to meet their operator interface needs. These include Series 84 pushbuttons as well as Series 84 Emergency Stop (E-Stop) switches for safe operation.

The Series 84 pushbutton switches are easy to see with ring illuminated lenses. The lenses are engraved with customer specific legends for “START” and “CHUCK”. They make the operation of the system clear and easy, even for new operators. Additionally, the system uses Series 84 E-Stops. These flush mount E-Stops provide for safe and reliable machinery operation, and offer easy clean-up and machine wipe down.

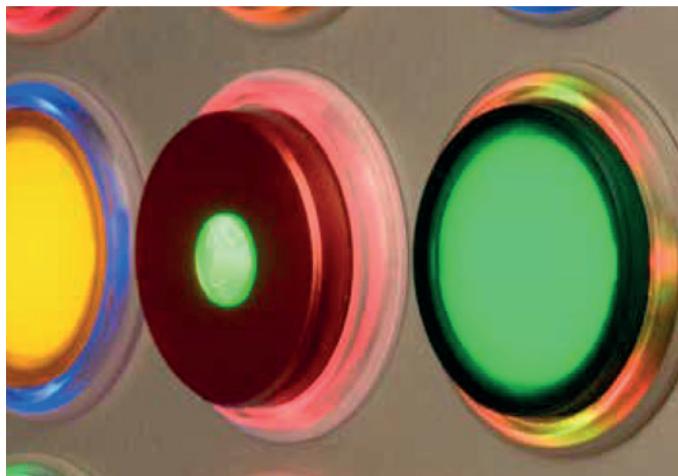
EAO’s Series 84 E-Stops offer a unique low back-of-panel depth at just 18 mm maximum, optional illumination, single mono-block construction, and a twist-to-release actuator. These products allow for great flexibility in many applications including, machinery, medical equipment, rail applications, and autonomous vehicle control. The Series 84 E-Stops are rated at 3A 120 VAC and 1.5A 240 VAC, and are protected against oil and water to IP65 standards. Series 84 E-Stops meet international safety specification ISO 13850 and comply with EN IEC 60947-5-1 and EN IEC 60947-5-5 requirements.

EAO's HMI Systems expertise provides National Optronics with the right interface for the Axion equipment – fingertip control with good tactile feedback.

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EAO Series 84 with halo illumination.

Results

EAO's HMI Systems expertise provides National Optronics with the right interface for the Axion equipment:

- Ergonomic design for ease of use
- Fingertip control with good tactile feedback
- Rugged construction and reliability
- Easy integration with industry software
- Safe operation with E-Stop technology

It's important to work with an HMI expert who can address all the human factors, technical and commercial considerations of a complex HMI development project.

EAO is a global partner and manufacturer of HMI Systems and HMI Components to a range of markets including machinery and automation, public transport, automotive design, special purpose and heavy-duty vehicles, as well as many others that involve an interaction between humans and machines. EAO is here to make this interaction innovative, intuitive and reliable.

EAO's components and systems undergo rigorous testing to assure reliability, repeatability, and long service life. EAO is ISO 9001, ISO 14001, IRIS, and ISO/TS 16949 certified for automotive and other industry requirements.

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