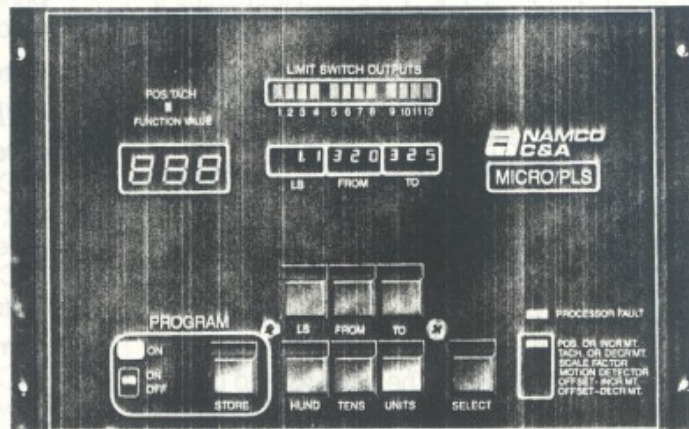
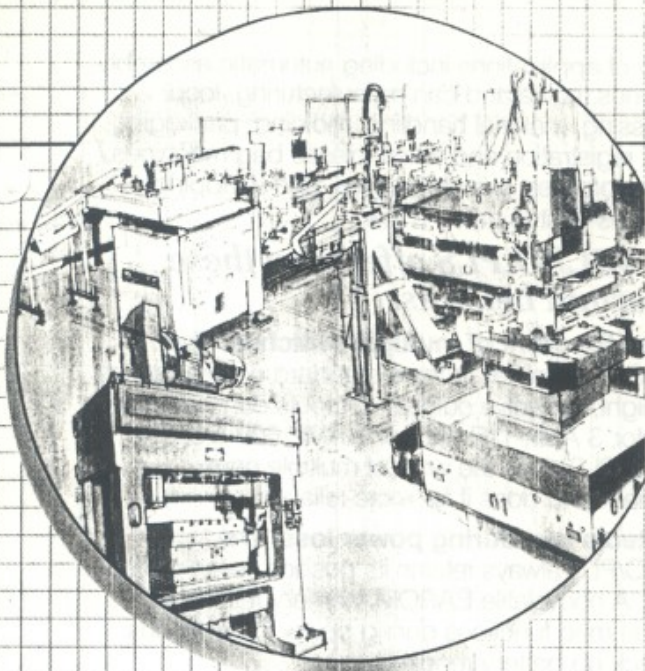


MICRO/PLS

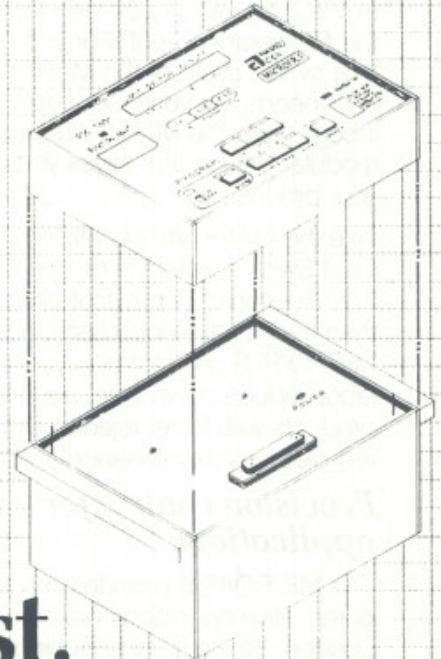


The new MICRO/PLS Programmable Limit Switch System increases productivity while reducing cost.

With this modular system, you buy only the components you need.

The MICRO/PLS's modular approach can save you money

The MICRO/PLS is a modular programmable limit switch system: the limit switch is contained in one unit and the programmer in another. The MICRO/PLS's modular approach saves you money, because you buy only one programmer for three, four, five, or as many controllers as you need. (With other systems, in which the limit switch and programmer come in an integral unit, you are forced to buy a programmer for every system—even if you don't want to.)



When to use the MICRO/PLS

If you need three or more controllers... and, after initial set-up, you don't constantly change settings... the MICRO/PLS may be the system for you. Use the portable programmer to set each switch system only when you need to—and save 30, 40, even 45 percent or more over the cost of conventional programmable limit switch systems.

Programming the MICRO/PLS is easy.

The MICRO/PLS's programmer weighs less than three pounds and fits easily in the palm of your

hand or in a crowded desk drawer. Want to get a readout or change a switch setting? Just plug the programmer into the MICRO/PLS's front panel.

The programmer features an easy-to-read digital display and a direct-entry keyboard that make it simple to change machine settings. It allows you to adjust your production rates or reconfigure your process to handle new products—quickly and easily. A power switch feature keeps you from attaching the programmer while the limit switch is powered up, preventing possible damage to the system.

Now you can improve productivity and cut costs

Electromechanical cam boxes require routine maintenance and are difficult to adjust and troublesome to change. The solution is to use programmable limit switch systems, which provide increased reliability, flexibility, and productivity.

In 1982, NAMCO/C&A developed and introduced the first microcomputer-based programmable limit switch system—the MARK VII. Now, to meet your needs, we've introduced the MICRO/PLS. It incorporates the MARK VII's proven technology in a modular design that saves you money as it boosts your productivity.

Like the MARK VII, the MICRO/PLS Programmable Limit Switch System is microcomputer-based and fully electronic. Because it offers greater flexibility than traditional electromechanical cam switches, the MICRO/PLS can increase your production rate, save labor, reduce down-time, and help you turn out better products with fewer rejects. The MICRO/PLS also requires less maintenance and is easier to adjust.

Precision control for a wide variety of applications

The MICRO/PLS provides precise, accurate control of repetitive operations based on machine shaft position. It's the ideal switching system for a wide

variety of applications including automatic assembly machines, bottle and can manufacturing, food processing, material handling, molding, packaging, paper registration and cutoff, plastic bag machines, printing presses, punch presses, and wrapping machines—just to name a few.

The MICRO/PLS offers you these important benefits:

■ **Does the work of multiple switches.** The MICRO/PLS comes in three standard configurations: four, eight, or twelve outputs. Outputs can be open collector, 3 AMP, 115V AC, or 3 AMP, 60V DC. The MICRO/PLS does the work of multiple cam switches—and does it far more reliably.

■ **Protects you during power loss.** The MICRO/PLS always retains its position—even without power. A nonvolatile EAROM memory retains all programmed functions during power interruptions. No back-up battery required.

■ **Accurate measurement.** The unique "brushless" resolver-based transducer detects position to within a third of a degree of accuracy, with bidirectional rotation from 0 to 2,000 RPM. A rugged NEMA-4 enclosure protects the transducer from the harshest environments.

Unlike optical encoders, which have glass disks that with shock can shatter, our transducer is virtually unbreakable. Also, optical encoders contain electronics that are subject to failure; the MICRO/PLS's transducer doesn't. (All electronics are safely located in the programmer and limit switch, far away from the sometimes harsh, abusive transducer environment).

Additional features:

- Automatic through zero limit programming
- Built-in 115/230 VAC power supply
- Output relay board with integral power supply—for driving high-level external AC or DC loads

About NAMCO/C&A

offers you a complete line of absolute rotary position control products to meet all your automation needs:

- Encoders to provide reliable shaft position data to all programmable controllers and computers
- Programmable limit switches more accurate and reliable than electromechanical cam-operated limit switches
- Sophisticated controllers for every conceivable packaging application.

All products are designed to be easy to install, easy to program, and easy to use. They're ideal for a wide range of applications—everything from bending and bottle manufacturing, to material handling and molding, to welding and wrapping.

Here's how to get your hands on a MICRO/PLS—today!

For a free, no-obligation demonstration of a MICRO/PLS in your plant or office, contact your sales representative. Or, call us direct, toll-free. We'll be glad to provide you with a free cost-analysis that shows just how much money the MICRO/PLS can save you!

1-800-4CA-PROD

The logo for NAMCO C&A, featuring a stylized 'A' symbol to the left of the text 'NAMCO' and 'C&A' stacked vertically.

AN ACME-CLEVELAND COMPANY
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