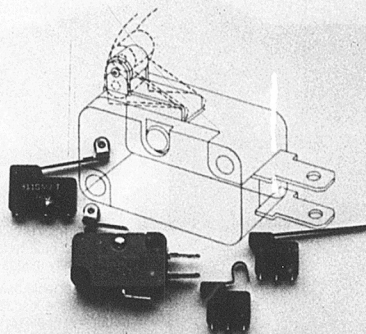
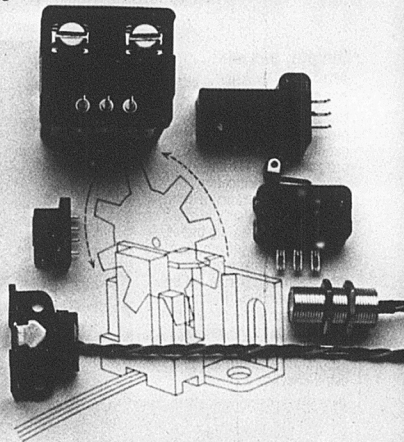


Some of these components will probably never wear out. The others will just come close.

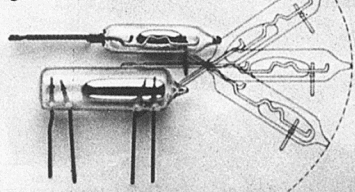
The SR, XL, XK and AV are solid state position sensors featuring almost infinite life. All offer zero speed operation with some up to 100 Khz. ES current sensor utilizes Hall-effect IC and protects against damage from short circuits or overcurrent conditions.



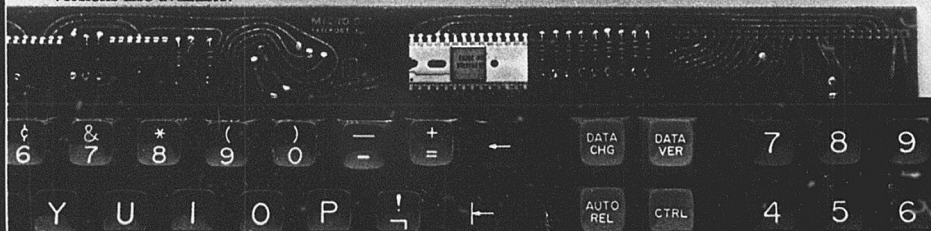
Snap-action V3, SM and SX switches offer wide variety of actuators, electrical capacity and termination.



Mercury switches offer hermetic sealing, a variety of electrical capacity and broad temperature ranges at a low cost.



Solid state keyboards provide high reliability no mechanical keyboard can offer. Panel sealed versions also available.



AM manual devices for low installed cost, electrical flexibility and attractive panel appearance. Series 8 miniature manual switches provide small size and wide variety of operators. DM offers inexpensive snap-in panel mount design.

wear out.

The solid state key-board, AML lighted push-buttons and sensors you see here will probably never wear out. Because they're all solid state.

Each is based on a Hall-effect integrated circuit. A circuit that's been tested through billions of operations without failing. And proven by performance in thousands of applications.

The precision electro-mechanical components you see here come close. Simply because of the careful way they're designed and put together.

Like the long-life versions of our snap-action V3, SM and SX precision switches. Available in a wide variety of sizes, electrical ratings, terminals, actuators, contact forms and operating characteristics—some tested to a mechanical life of over 10,000,000 operations.

MICRO SWITCH will provide you with field engineers for application assistance and a network of authorized distributors for local availability. Write us for details or call 815/235-6600.

And find out how you can get a component that goes on forever. Or at least comes very, very close.

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FREEPORT, ILLINOIS 61032
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MICRO SWITCH products are available worldwide through Honeywell International.

Computers & Peripherals

Software package handles 16-bit assembly and PL/M



Intel Corp., 3065 Bowers Ave., Santa Clara, CA 95051. Rob Walker (408) 249-8027. \$3400, stock.

Want to develop 8086 programs in assembly language? Or in a higher-level language? Perhaps you just want to convert 8080/85 programs into 8086 code and have them run ten times faster? You can do all of this with a single software package, the MDS-311. It works on Intellec 800 and Series II microcomputer development systems and is designed to please the experienced designer and the novice.

The package consists of an 8080/85-to-8086 source code converter (CONV 86), a relocatable coder with macro-assembler (ASM86), a compiler (PL/M-86), a linker and loader with quick-relocate/link capability (QRL86), an object-code-to-hexadecimal converter (OH86) and a library manager (LIB86).

Probably the most important feature of the package is its ability to mix assembly and higher-level language, and to include code written for the 8080 and 8085. So you can use tested routines, already in object format, and string them together with program modules written in PL/M-80 or the new PL/M-86. Easier to learn than assembly language, PL/M-86 encourages reliable program development with

block-structured procedures and modular design.

But even the ASM86 assembler lets you write structured programs with higher-level language features. It takes into account whether the operands are bytes (8 bits) or words (16 bits), and whether they come from registers or memory. Type-checking on variables and labels helps to detect and prevent programming errors. String manipulation, representation of complex functions by a single symbol, detailed error messages and many macros add to the assembler's power.

Programs written in PL/M-80 can be recompiled (with little conversion, if any), and then linked and located to run on an 8086-based iSBC-86/12 single-board computers. To speed up the debugging process, the QRL86 facility combines linkage/relocation into one pass so you can check out single program modules quickly before you combine them into a single program.

The object-code-to-hexadecimal converter also aids program development—by letting you print out memory content and object code in more readable form. Finally, the librarian helps you to build, maintain and use a store of assembled or compiled program modules and routines.

CIRCLE NO. 301