PLµS

PS-5121/5124
PS-5021/5024

PROGRAMMABLE LIMIT SWITCH

INTEGRAL OUTPUT RACK

RESOLVER OR ENCODER INPUT


FCN

PGM   CHN

POS/RPM
MOTION
POWER
CPU

ON   PULSE   OFF
VIEW ON/OFF SETPT VIEW

0) Program Enable code
1) Motion Detection
2) Offset
3) Active Program
4) Speed Compensation: DEG/1000 RPM
5) Timed Outputs

1 2 3
4 5 6   CLR/CLE
7 8 9
DEC 0 INC ENT

PLµS
5000 Series
Programmable Limit Switch
PLµS Controls Div.
Electro Cam Corp.
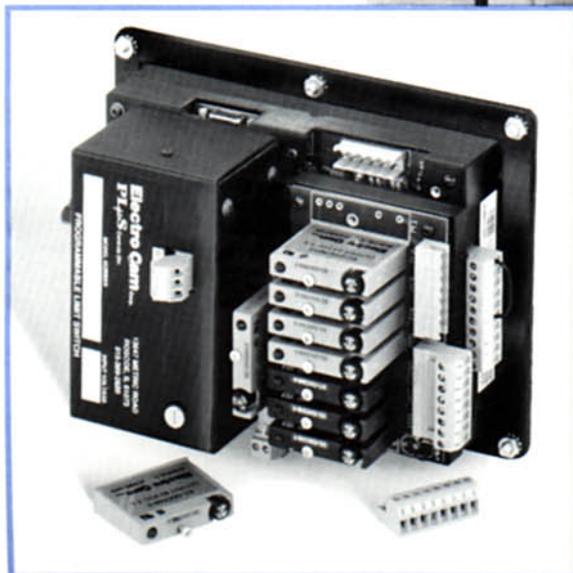
- **9 AC and/or DC OUTPUTS ON-BOARD— NO RACK NEEDED**

- **SELF-FUSED *SLIMLINE* OUTPUT MODULES with BUILT-IN LED ON/OFF INDICATORS**

- **FUSE TESTER & SPARE FUSE**

- **ALL PS-5000 SERIES STANDARD FEATURES:** INDIVIDUAL CHANNEL SPEED COMPENSATION, 64 PROGRAMS, 3 LEVELS OF PROGRAMMING ACCESS, TIMED OUTPUTS, MOTION DETECTION AND-ING, SELECTABLE SCALE FACTOR (RESOLVER-BASED UNITS), FUSED 12VDC ACCESSORY POWER

- **OPTIONAL FEATURES:** ANALOG OUTPUT ENABLE MODES, INDIVIDUAL LEADING AND TRAILING EDGE SPEED COMPENSATION, SERIAL COMMUNICATION, MOTION DIRECTION AND-ING, GRAY CODE POSITION OUTPUT, HIGH RESO-LUTION (12 BIT—4096), 220 VAC INPUT

Electro Cam Corp.

The full-featured PS-5X2X PLµS provides expanded programmable limit switch functions in a compact package. These PLµS Models do not require the use of a separate output rack—the *SLIMLINE* Output Modules they use are mounted directly on the back of the Keyboard/Controllers. As with all PS-5000 Series Keyboard/Controllers, they offer the option of resolver OR encoder transducer input, enhanced keyboard programming, and many features ordinarily not found in a programmable limit switch. A more complete explanation of these features may be found in the PS-5000 Series composite brochure.

With the PS-5X2X PLµS, as many as 9 AC and/or DC devices (with 3 amp load ratings) may be controlled. For simpler troubleshooting and debugging, the *SLIMLINE* Input and Output Modules have an integral LED ON/OFF indicator, and the Output Modules have a built-in socketed fuse. In addition, the Keyboard/Controllers provide a spare fuse and fuse testing circuit.
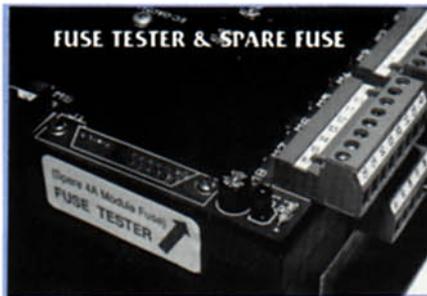
One *SLIMLINE* Output Module is required per output circuit, and outputs may switch machine devices (glue guns, air cylinders, etc.) or provide signals for use as logic elements in PLC programs. The number of modules installed in the unit is determined by the application.

The PS-5024/5124 Models allow the use of *SLIMLINE* Input Modules to control output groups with input signals from sensors. Refer to the PS-5000 Series composite brochure for complete explanations of these Output Enable Modes.

Units used in applications requiring analog signals must have the **-A** option and an Analog Output Module must be installed in position #9. The output is proportional to shaft speed, and is either a 0-10 VDC or 4-20 mA output signal, depending on the module used. Units with **-A** option provide 8 standard outputs, output #9 is analog output only on these units.

All transducers contain dual 3/4" shaft bearings.

All cables are factory-assembled and tested to assure system reliability.

FUSE TESTER & SPARE FUSE

PS-5X2X-XX-MXX-X

TRANSDUCER SELECTION
0 - Encoder Input
1 - Resolver Input

FUNCTIONS
1 - Standard Features
4 - Output Enable Modes & Standard Features

INPUT VOLTAGE
10 - 115VAC Input
20 - 230VAC Input

NUMBER OF OUTPUTS
08 - 8 DC Outputs (PS-5X11 Models)
09 - 9 SLIMLINE Modules (PS-5X2X Models)*
16 - 16 AC and or DC Outputs: 16 DC Output on PS-5X11's
24 - 24 AC and/or DC Outputs
48 - 48 AC and/or DC Outputs

OPTIONS
A - Analog Output Proportioned to RPM
C - Serial Communication
D - Direction Logic
F - 512 Programs
G - Gray Code Output
H - High Resolution (12 bit-4096)
L - Leading & Trailing Edge Speed Compensation
P - Reg. Mark Phasing

SLIMLINE MODULES

DC OUTPUT	AC OUTPUT	DC INPUT
EC-ODC060-3	EC-OAC240-3	EC-IDC032
EC-ODC200-1		

RELAY OUTPUT		*AC INPUT*
EC-ORR000-0		EC-IAC120
		EC-IAC240

ANALOG OUTPUT MODULES

EC-ANLG-010V (0-10 VDC)
EC-ANLG-420M (4-20 mA)
(USED WITH **-A** OPTION ONLY)

ENCODERS

NEMA 12 Housing
PS-4256-11-DDR-(0 TO 1000 RPM)
PS-4257-11-DDR-(0 TO 2000 RPM)

NEMA 4X Housing
PS-4456-11-DDR-(0 TO 1000 RPM)
PS-4457-11-DDR-(0 TO 2000 RPM)

ENCODER CABLE
PS-4300-01-[XXX]

XXX = cable length in feet. Available in 5' increments from 5' to 30', 10' increments from 30'-100', and 50' increments from 100'-1000' (10' cable = 010).

RESOLVERS

FLANGE MOUNT
PS-5238-11-ADR (rear connector, 3/8" shaft)
PS-5238-11-ADS (side connector, 3/8" shaft)
PS-5262-11-ADR (rear connector, 5/8" shaft)
PS-5262-11-ADS (side connector, 5/8" shaft)

FOOT MOUNT
PS-5275-11-ADR (rear connector, 3/4" shaft)
PS-5275-11-ADS (side connector, 3/4" shaft)

SERVO MOUNT
PS-5238-11-ADR (rear connector, 3/8" shaft)
PS-5238-11-ADS (side connector, 3/8" shaft)
PS-5212-11-SVW (unhoused resolver, size 11, requires PS-5300-01-TER connector)

RESOLVER CABLE
PS-5300-01-[XXX]

XXX = cable length in feet. Available in 5' increments from 5' to 30', 10' increments from 30'-100', and 50' increments from 100'-1000' (10' cable = 010).

REAR PANEL LAYOUT