

PS-5134/5034 PROGRAMMABLE LIMIT SWITCH

STANDARD FEATURES:

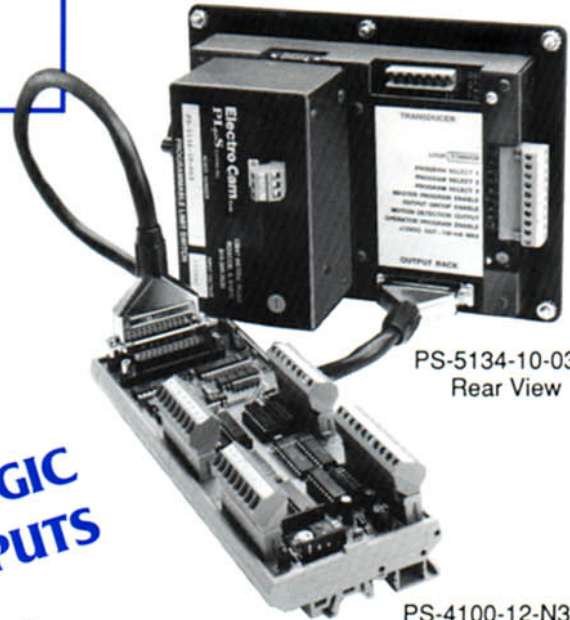
- 32 or 64 OUTPUT CHANNELS
 - DC SINK OR SOURCE
 - OPTICALLY ISOLATED
- MULTIPLE PROGRAMS (32 with 32 outputs, 16 with 64 outputs)
- INDIVIDUAL CHANNEL SPEED COMPENSATION
- OUTPUT ENABLE MODES
- 3 LEVELS OF PROGRAMMING ACCESS
- TIMED OUTPUTS
- MOTION DETECTION AND-ing
- SELECTABLE (2-1024) SCALE FACTOR (Resolver-based units)
- 12 VDC ACCESSORY POWER
- DUAL 3/4" BEARINGS IN ALL ENCODERS & RESOLVERS
- SERIAL COMMUNICATION

OPTIONAL FEATURES:

- INDIVIDUAL LEADING AND TRAILING EDGE SPEED COMPENSATION
- ADDITIONAL PROGRAMS
- GRAY CODE POSITION OUTPUT
- HIGH RESOLUTION (12-bit - 4096)
- 220 VAC INPUT
- NEMA 12 or NEMA 4X ENCLOSURE



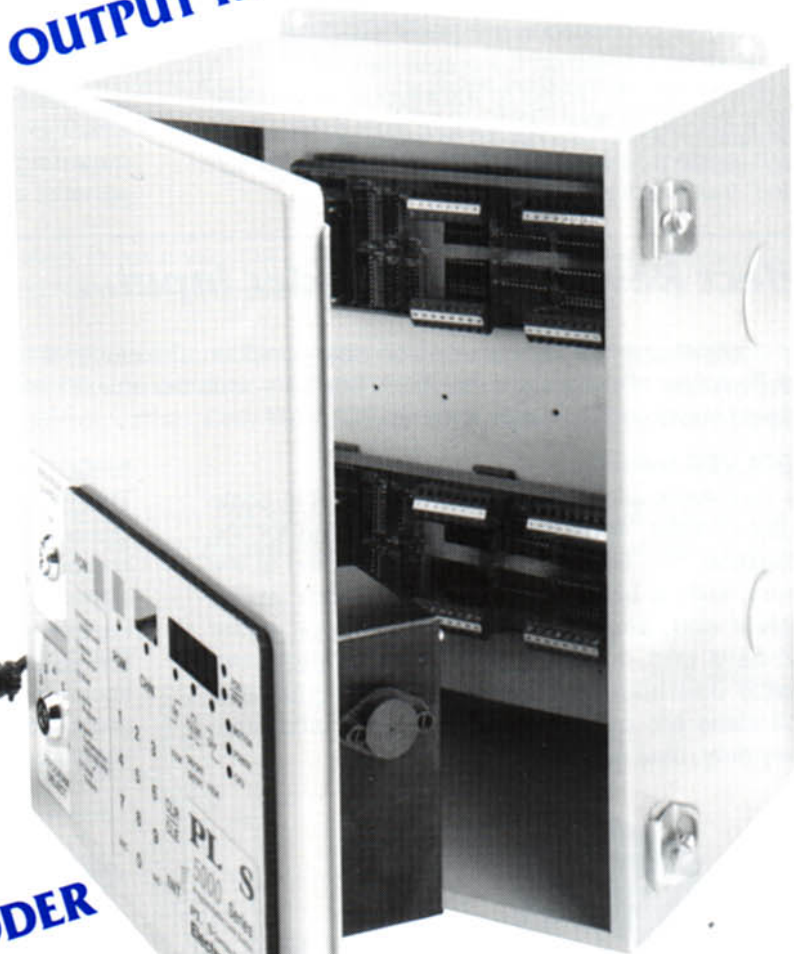
**RESOLVER or ENCODER
INPUT**



PS-5134-10-032
Rear View

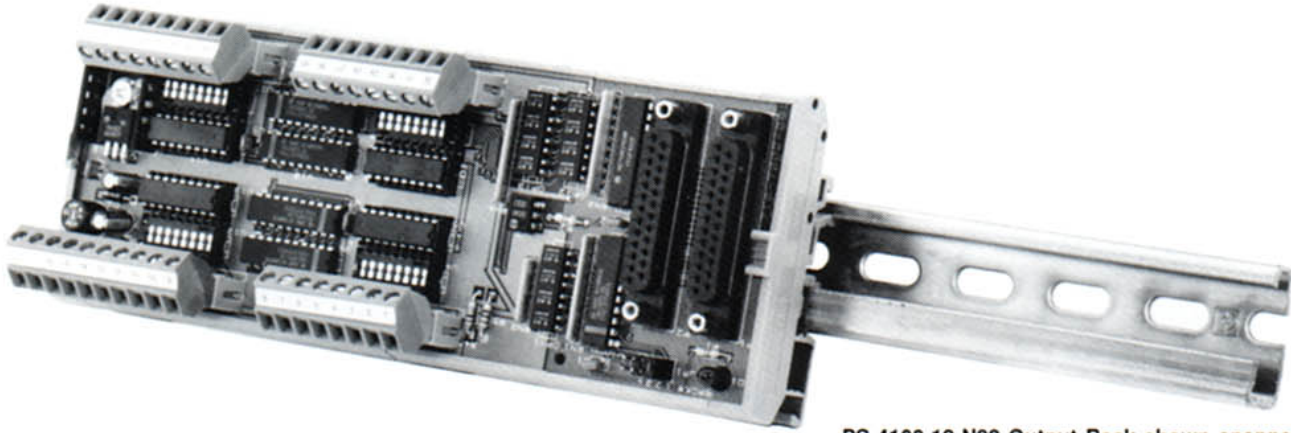
**32 or 64 LOGIC
LEVEL OUTPUTS
DIN RAIL
OUTPUT RACK**

PS-4100-12-N32
(32 Sinking Output
Rack)



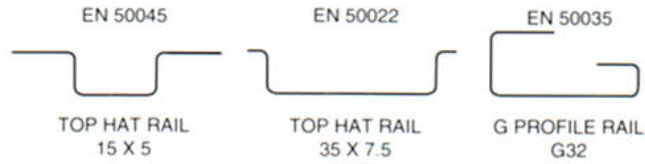
PS-5134-10-064 Control Mounted in
PS-4912-01-002 Enclosure with
PS-4901-03-001 and PS-4902-01-001
Switches, PS-5275-11-ADR Resolver

Output Rack



Each output rack provides 32 optically isolated transistor outputs, sinking or sourcing configuration. These outputs are limited to 50 mAmps each, suitable for PLC interface and other low-current DC logic circuitry. Output signal connections are made via detachable terminal strips located on the output rack(s). The output rack is cabled to the keyboard/controller using a standard **PLS** output rack cable. A 64 output system uses 2 racks, and a cable "daisy-chains" the 2 racks together.

PS-4100-12-N32 Output Rack shown snapped to a section of PS-4903-02-001 (DIN EN G profile perforated steel rail.)



The output racks are built with a universal foot which allows them to be snapped onto any DIN EN mounting rail, which typically mounts to the sub-panel of an enclosure.

Select Resolver or Encoder Input...

User applications will determine which rotary position transducer is appropriate. PS-5000 Series Programmable Limit Switches offer the user maximum flexibility, with the option of resolver or encoder input, depending on the model of Keyboard/Controller ordered.

RESOLVER INPUT

The Resolvers allow keyboard-programmable scale factors (2-1024, 4096 available) appropriate for the application. The Resolver cable is assembled at the factory, with a bayonet mil-spec connector at the resolver end, and a plug-in terminal block at the keyboard end, for fast, simple installation and reliable operation. Several mounting styles and shaft sizes are available. All resolver shafts have heavy duty, dual bearings.

ENCODER INPUT

The NEMA 12 and NEMA 4X Absolute Gray Code Encoders are housed in rugged, industrial-grade enclosures. These units provide 8-bit Gray code signals to the **PLS** Microprocessor for error-free transmission of shaft position information. Encoders are used in applications not requiring positioning accuracy greater than $\pm 0.7^\circ$. The encoder cables are made and tested at the factory to simplify installation.



PS-5238-11-ADR shown

Resolvers
Keyboards
have 7-pin
connector



PS-4256-11-DDR shown

Encoder
Keyboards
have 25-pin
"D" connector



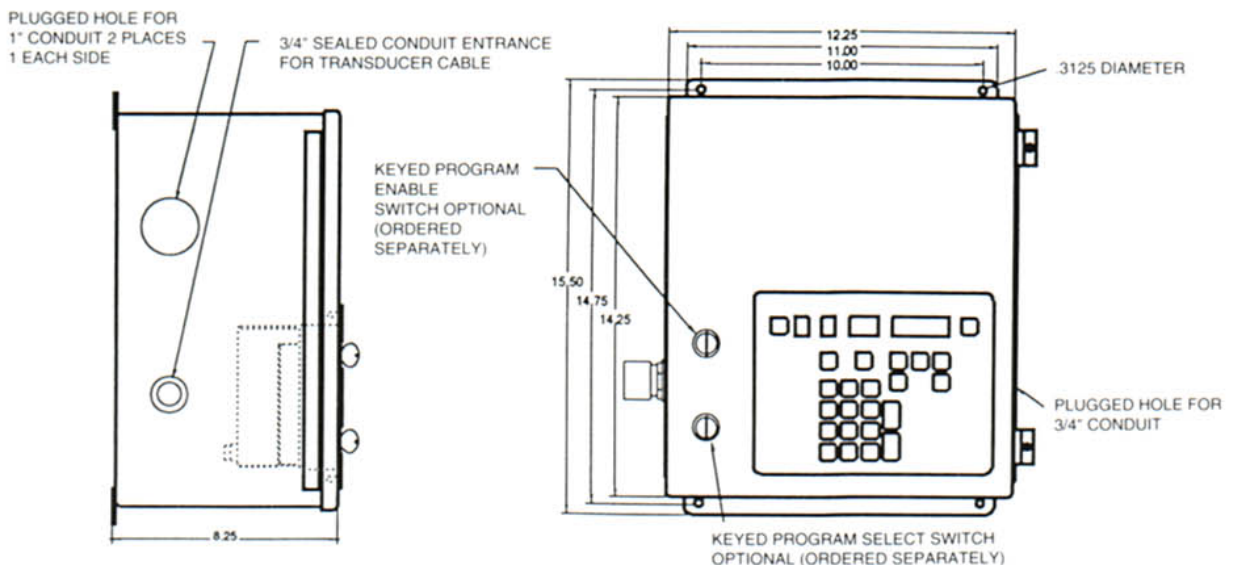
Enclosures & Keyswitches

PS-5134-10-064 keyboard and PS-4902-01-001 and PS-4901-03-001 keyswitches shown mounted in PS-4912-01-002 enclosure with supplied conduit fitting for transducer cable entry.

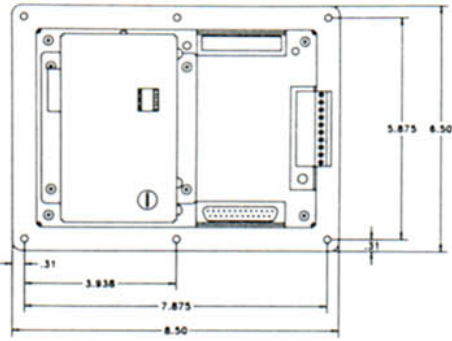
The PS-5X34 system is available fully installed in an enclosure suitable for the system (when enclosure is ordered with the system). Both NEMA 12 and NEMA 4X enclosures are available .

Keyswitches will be mounted and wired to the Keyboard/Controller if ordered with the system. The PROGRAM SELECT switch allows machine operators remote selection of the ACTIVE PROGRAM (the ACTIVE PROGRAM contains the current output channel setpoints). Only the ACTIVE PROGRAM may be changed with this switch.

The PROGRAM ENABLE switch provides protection from unauthorized programming changes. There are 2 PGM ENABLE inputs on the PS-5000 SERIES, one for "master level" programming and a second one for "operator level" programming .

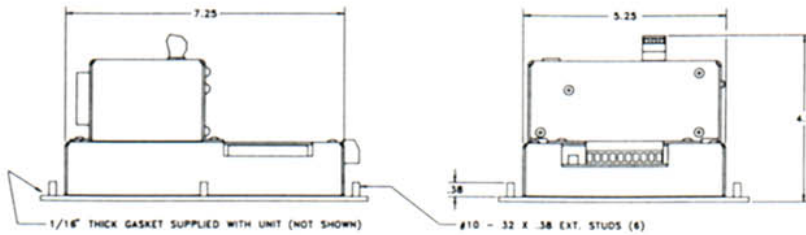


Keyboard/Controller



PS-5034-10-032
PS-5034-10-064
PS-5134-10-032
PS-5134-10-064

For 240 VAC input
change - 10 to - 20



Typical Systems

64 output resolver-based
system shown



ENCODER BASED

(1)PS-5034-10-0XX
(1)PS-4256-11-DDR
(1)PS-4300-01-XXX
(1)PS-4300-02-XXX*
(1)PS-4100-12-X32*

RESOLVER BASED

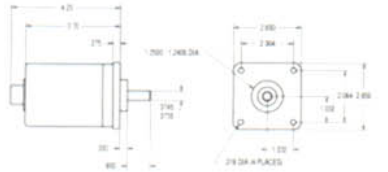
(1)PS-5134-10-0XX
(1)PS-52XX-XX-XXX**
(1)PS-5300-01-XXX
(1)PS-4300-02-XXX*
(1)PS-4100-12-X32*

*2 of each required for 64 output systems
**order according to application requirements
from models below or consult factory for further
selections.

Resolver

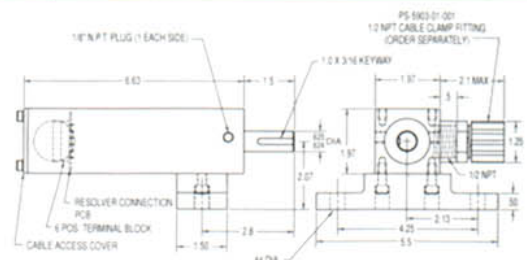
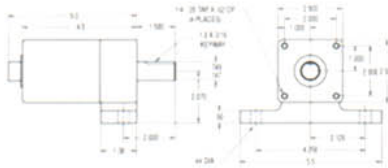
FLANGE MOUNT

PS-5238-11-ADR (SHOWN)
PS-5238-11-ADS



FOOT MOUNT

PS-5275-11-ADR (SHOWN)
PS-5275-11-ADS



STAINLESS STEEL (NEMA 4X)

PS-5262-11-CTG (SHOWN)
PS-5262-11-CTL

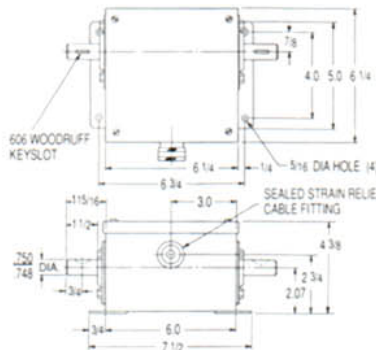
PS-5300-02-XXX (CABLE USED)

Resolver Cable

PS-5300-01-XXX

Keyboard/Controller to Resolver, 10' length
standard (010). Other lengths specify "XXX" in 5'
increments up to 30', 10' increments to 50', and
25' increments up to 1000'.

Encoder



NEMA 12 Housing

PS-4256-11-DDR-(0 to 1000RPM)
PS-4257-11-DDR-(0 to 2000RPM)

NEMA 4X Housing

PS-4456-11-DDR-(0 to 1000 RPM)
PS-4457-11-DDR-(0 to 2000 RPM)

Note: NEMA 4x (stainless steel)
not shown.
Mounting dimensions are identical to
NEMA 12 as shown.

Encoder Cable

PS-4300-01-XXX

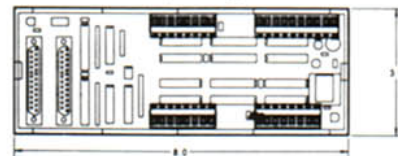
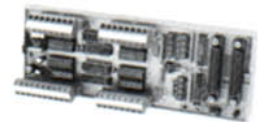
Keyboard/Controller to Encoder, 10' length standard
(010). Other lengths specify "XXX" in 5' increments up
to 30' and 10' increments to 30' - 200'.

Output Rack

Snaps onto DIN EN series
mounting rail. 2 racks required
for 64 output systems.

PS-4100-12-P32 (Sourcing)

PS-4100-12-N32 (Sinking)



Din Rail (G Profile - not included with rack)

PS-4903-02-001 (9")

PS-4903-02-002 (18")

Output Rack Cable

PS-4300-02-XXX

Keyboard/Controller to Output Rack, 1', 2',
3', 4', and 5' lengths standard. Other lengths
specify "XXX" in 5' increments up to 30'. If
longer cables are required consult factory. 2
cables required in 64 output systems.

