



PS340 / PS641

Autonomous low-cost single axis position controller for various machine applications

Product Features:

- Easy parameter setting and immediately ready to work with minimum commissioning time
- High accuracy due to high feedback frequency range (300 kHz with TTL and 200 kHz with HTL encoders)
- Extremely smooth motion by optimized S-shape profiles
- High dynamic response by means of short cycle time
- Various modes of operation for absolute and relative positions (incremental length), loop operation and positioning on index signals or print marks
- Most compact unit including operator panel for direct access and RS232 interface for remote access
- 24 VAC / 17 ... 40 VDC power supply

Available Devices:

- **PS340:** Controller with setting of the target position by keypad, 14 bits analog output and 4 fast power transistor outputs for alerts
- **PS641:** Controller with features like PS340, but additional front thumbwheel switches for fast input of the target position and 4 potential free changeover relay outputs for alerts

Technical Specifications:		
Power supply:	Input voltage (AC): Input voltage (DC): Protection circuit: Consumption: Connections:	24 VAC +/- 10 % 17 ... 40 VDC reverse polarity protection 100 mA at 24 VDC (unloaded) screw terminal, 1.5 mm ² / AWG 16
Encoder supply:	Number of aux. voltages: Output voltage 1: Output current 1: Output voltage 2: Output current 2: Connections:	2 (each double-performed) 24 VDC max. 120 mA each 5.2 VDC max. 150 mA each screw terminal, 1.5 mm ² / AWG 16
Incremental input:	Signal levels: Channels: Frequency: Internal resistance: Connections:	HTL: LOW 0 ... 2 V, HIGH 10 ... 30 V TTL: LOW 0 ... 0.8 V, HIGH 3 ... 5 V RS422: Differential voltage > 1 V symmetrical: A, /A, B, /B or asymmetrical: A, B RS422 / TTL symmetrical: 300 kHz HTL or TTL asymmetrical: 200 kHz Ri ≈ 8.5 kOhm screw terminal, 1.5 mm ² / AWG 16
Control inputs:	Number of inputs: Signal levels: Characteristic: Internal resistance: Min. pulse time: Connections:	4 (configurable) HTL: LOW 0 ... 2.5 V, HIGH 10 ... 30 V NPN / PNP / Namur Ri ≈ 3.3 kOhm 50 μs screw terminal, 1.5 mm ² / AWG 16
Control outputs:	Number of outputs: Protection circuit: Characteristic: Output current: Reaction time: Connections:	4 fast transistor outputs **) short circuit proof PNP, 5 ... 30 V 350 mA each < 1 ms *) screw terminal, 1.5 mm ² / AWG 16
Relay outputs: (only with version PS641)	Number of outputs: Switching capacity: Reaction time: Connections:	4 potential-free changeovers **) 250 VAC / 1 A / 250 VA or 100 VDC / 1 A / 100 W approx. 10 ms screw terminal, 2.5 mm ² / AWG 14
Analog output:	Voltage output: Current output: Resolution: Accuracy Reaction time: Connections:	+/- 10 V, max. 2 mA 0 / 4 ... 20 mA (burden: max. 270 Ohm) 14 bit (± 13 bit) 0.1 % < 1 ms *) screw terminal, 1.5 mm ² / AWG 16
Serial interface:	Format: Baud rate (selectable): Connections:	RS232 600, 1200, 2400, 4800, 9600, 19200, 38400 Baud screw terminal, 1.5 mm ² / AWG 16
Housing:	Type / Material: Mounting: Dimensions PS340: Dimensions PS641: Protection class PS340: Protection class PS641: Accessories: Weight:	Norly UL94-V-0 / plastic panel cut out (w x h): 91 x 44 mm / 3.59 x 1.73 inch outer dimensions (w x h x d): 110 x 48 x 141 mm / 4.33 x 1.89 x 5.55 inch cut out (w x h): 89 x 91 mm / 3.50 x 3.59 inch outer dimensions (w x h x d): 110 x 96 x 141 mm / 4.33 x 3.78 x 5.55 inch front: IP 65 / rear: IP20 front: IP 20 ***) / rear: IP20 ***) with optional plexiglass cover part # 64026 also IP65 achievable SM300: optional mounting bracket for top hat rail mounting of PS340 units PS340: approx. 250 g / PS641: approx. 370 g
Ambient temperature:	Operation: Storage:	0 °C ... +45 °C / +32 ... +113 °F (not condensing) -25 °C ... +70 °C / -13 ... +158 °F (not condensing)
Conformity & standards:	EMC 2004/108/EC: LV 2006/95/EC: Guideline 2011/65/EU:	EN 61000-6-2, EN 61000-6-3, EN 61000-6-4 EN 61010-1 RoHS-conform

*) Continuous serial communication may temporary increase response times **) Diode or RC filtering is mandatory when switching inductive loads