

"tough tech for tough environments"

PA-R-135-4 servo-actuator



The PEGASUS PA-R-135-4 micro – low profile - servo actuator is currently the worlds smallest professional servo actuator.

data sheet - technical specifications

Performance data:

Operating voltage:	6VDC	12VDC	24VDC
Voltage range:	6 - 8VDC	8 - 16VDC	18 -32VDC
Standby current:	20mA		
Peak current - short time:	1300mA	700mA	330mA
Stall current – continuous*:	680mA	300mA	170mA
Speed at rated torque:	225°/sec	175°/sec	175°/sec
No load speed:	425°/sec	410°/sec	410°/sec
Stall torque*2:	> 60Ncm (> 84 oz-in)		
Rated torque*3:	30Ncm (42 oz-in)		
Gear train backlash:	< 0,5°		
Travel angle:	± 45° (-5%)		
PA-SC lock out momentum:	80Ncm (113 oz-in.) +20%		
Min detectable signal step:	max 0,25µsec. (adjustable)		
Weight:	65g (2,3 oz)		

Input signal:

PWM signal, TTL level (standard)
PWM signal, differential (RS485 transceiver) (optional)
or RS485 data protocol (optional)

Position feedback:

analog, differential: 0-5V

Environmental data:

Operating temperature: -40°C - +60°C (-40°F - +140°F)
up to +100°C (+212°F) on special request
Storage temperature: -40°C - +70°C (-40°F - +158°F)

Environmental specifications:

Vibration test: IEC 68-2-6 / EN 60068-2-6
Shock test: IEC 68-2-32
Protection class: IP67

* limited by overload protection circuit

*2 limited by slip clutch

*3 according to specifications of Pegasus Actuators GmbH
(please inquire the test-specifications)



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Main components - Case:

IP67 water and dust protected with solid vertical 4 point and horizontal 3 point fixation.

material: CNC machined aluminum, bead blasted and anodized

Main components – Gear train:

hardened steel, spur gear type, 2 ball races with PA-SC overload protection output shaft.

Main components - Motor:

Neodym-magnet DC motor

Main components - Amplifier:

digital positioning controller

Main components - Sensor:

PA-ME magnetic angle sensor as standard

mechanical: 360° (no end stops)

Electrical - (standard): $\pm 45^\circ$

Main components - Connector:

- 30 cm pigtail, no connector

length and connector can be specified by the customer

- Gienair SuperFly series 881- 7 pin connector