

**“tough tech for tough environments“**

## **PA-R-135 servo-actuator**

**Pegasus**

Actuators GmbH



### **data sheet - technical specifications**

#### **Supply data:**

Operating voltage: 6V, 12V, 24V  
Standby current: 40mA

#### **Input signal:**

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

#### **PWM parameter:**

Frame rate: 2,6 - 1000ms  
Valid pulse length: 1,0 - 2,0ms  
left / center / right: 1,0ms - 1,5ms - 2,0ms

#### **Position feedback:**

analog, differential: 0-5V  
Scale factor: 27.78 mV/deg.

#### **Performance data: (@12V DC)**

Stall torque: limited by Slip clutch  
Rated torque<sup>\*\*</sup>: 30Ncm (42 oz-in.)  
Speed at rated torque: approx. 325°/sec.  
No load speed: approx. 425°/sec.  
Gear train backlash: < 0,5°  
Travel angle: ± 45° (-5%)  
Slip clutch lock out momentum: 80Ncm (113 oz-in.) +20%  
Peak current - short time: 700mA  
Stall current - continuous: 300mA (limited)  
Minimum detectable signal step: max 0,25µsec. (adjustable)  
Weight: 65g (2,3 oz)

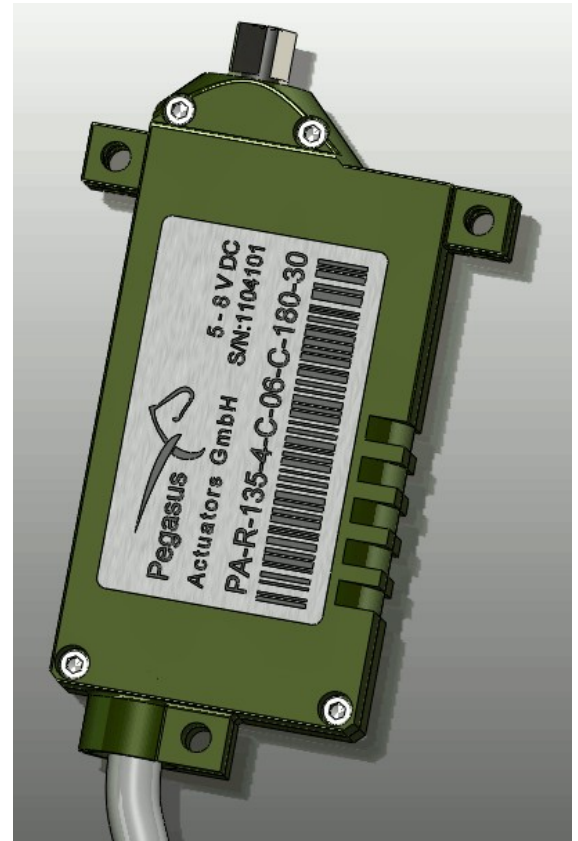
<sup>\*\*</sup>according to specifications of Pegasus Actuators GmbH  
(please inquire the test-specifications)

#### **Environmental data:**

Axial load on output shaft: <10N  
Lateral load on output shaft: <30N  
Operating temperature: -40°C - +60°C (-40°F - +140°F) / +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



**“tough tech for tough environments“**

## **PA-R-135 servo-actuator**

**Pegasus**

Actuators GmbH



### **data sheet - technical specifications**

#### **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

##### **Gear train:**

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

##### **Motor:**

Neodym-magnet DC motor

##### **Amplifier:**

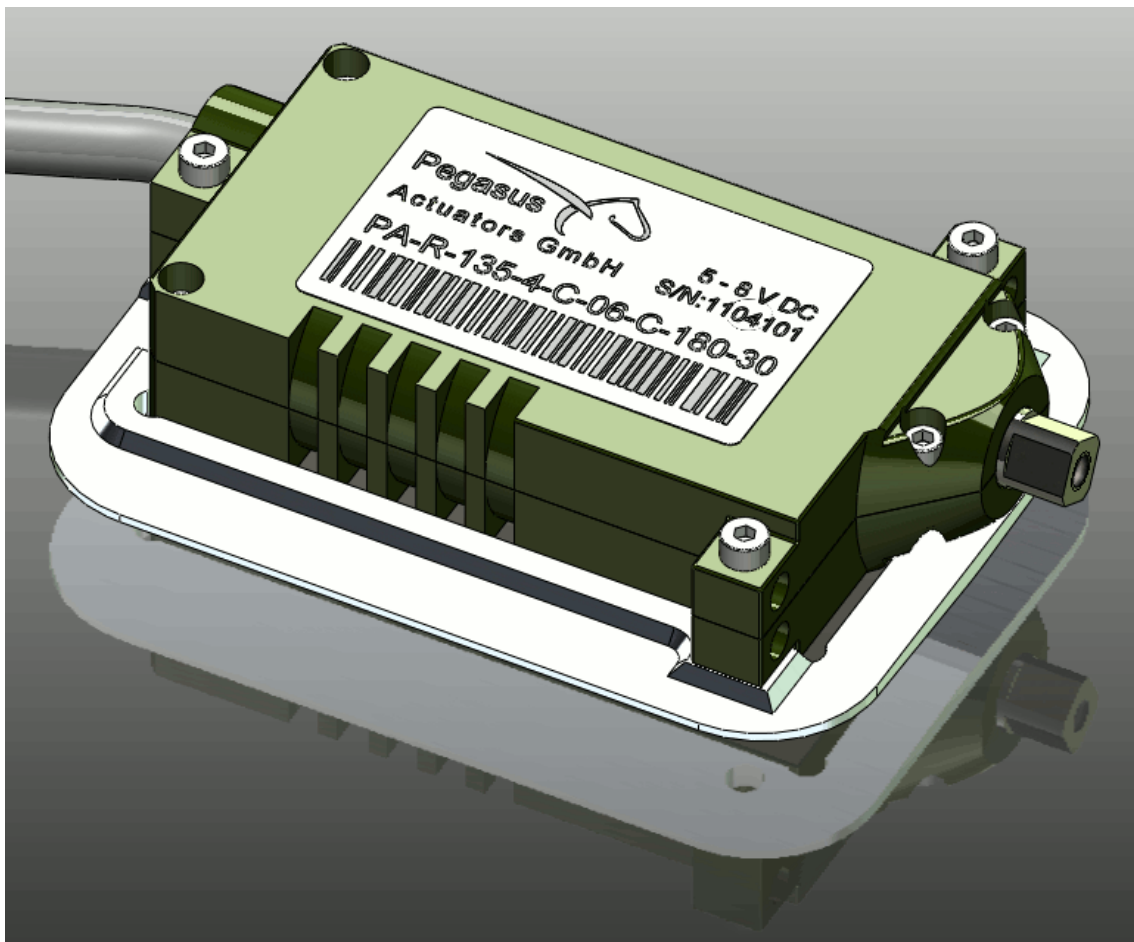
digital positioning controller

##### **Sensor travel angle:**

mechanical: 360° (no end stops)  
electrical - (standard):  $\pm 45^\circ$

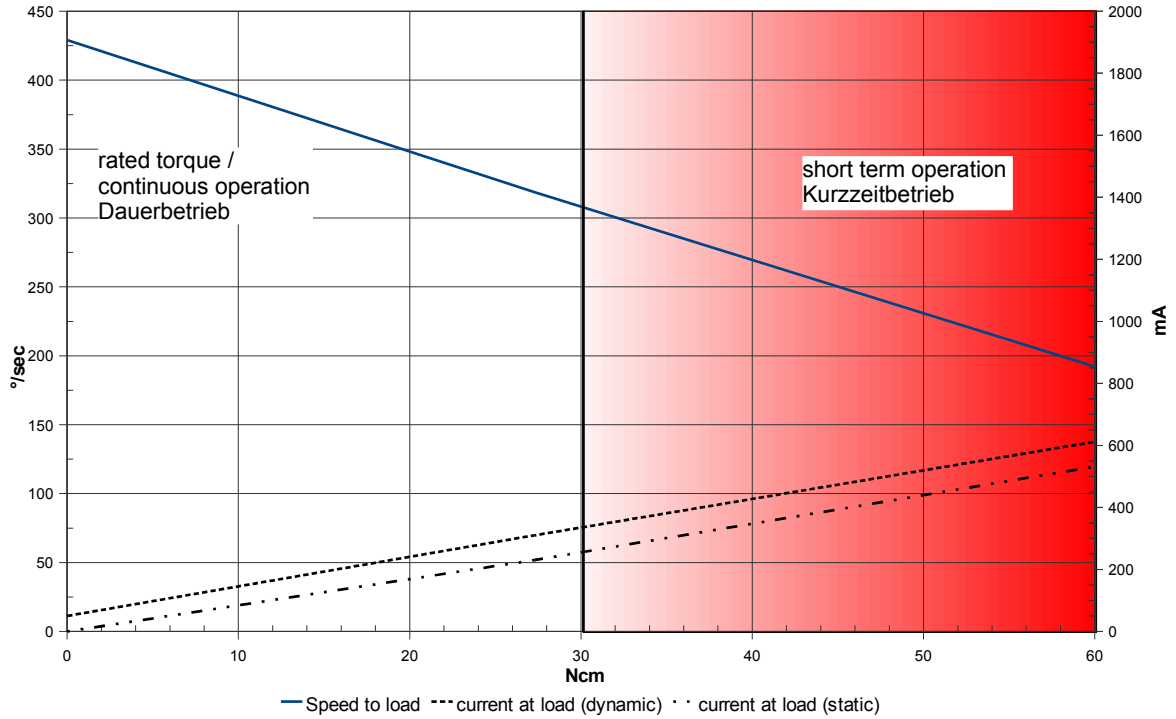
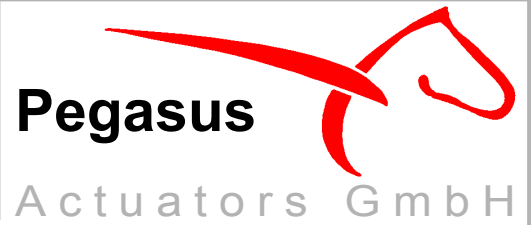
##### **Actuator connector:**

Actuator comes with pigtail, additional connector can be specified by the customer



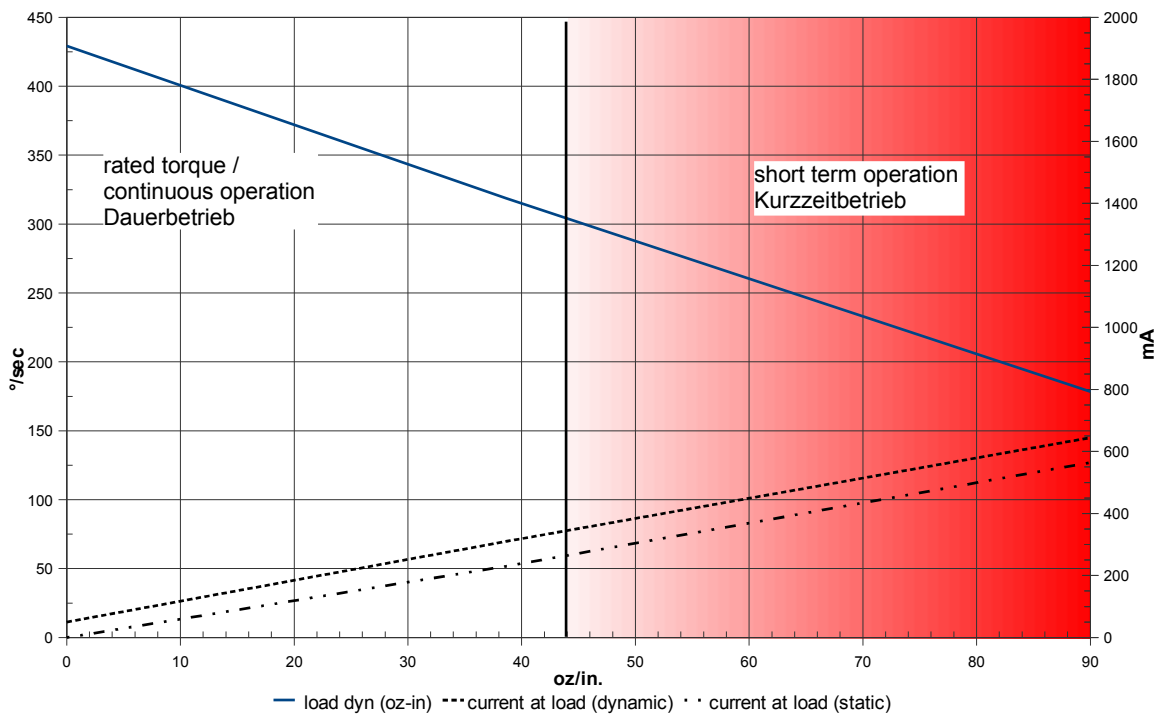
**“tough tech for tough environments“**

**PA-R-135-4 servo-actuator**



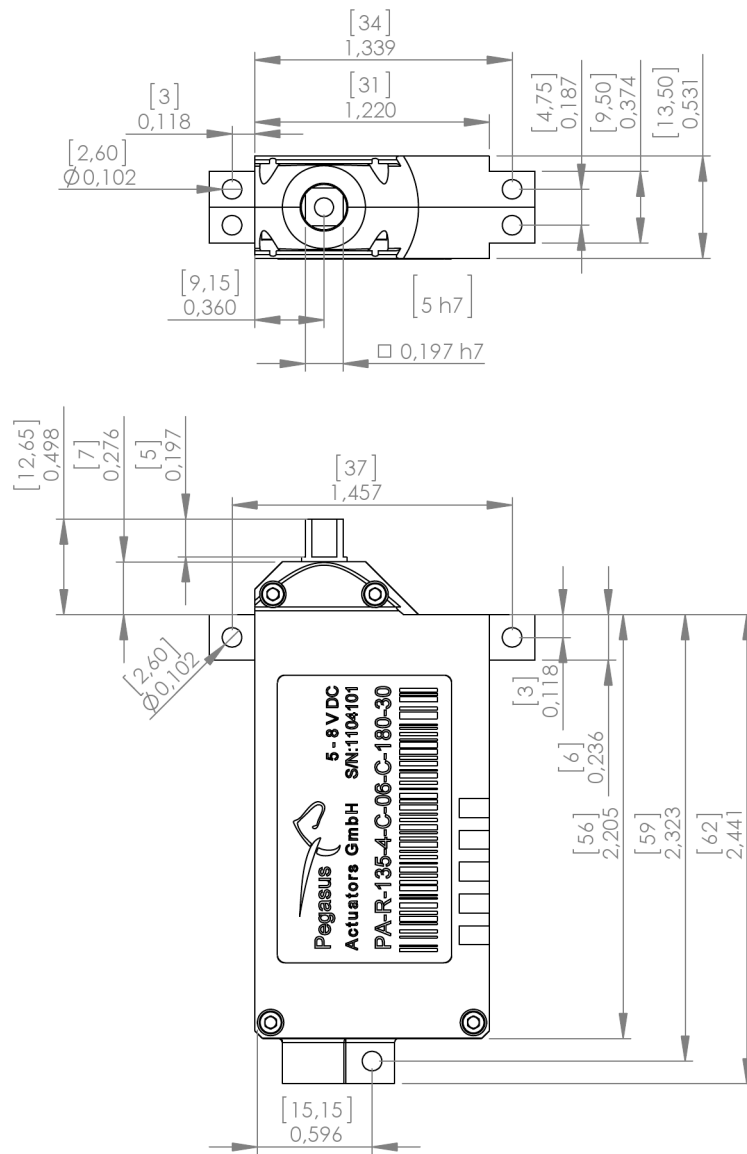
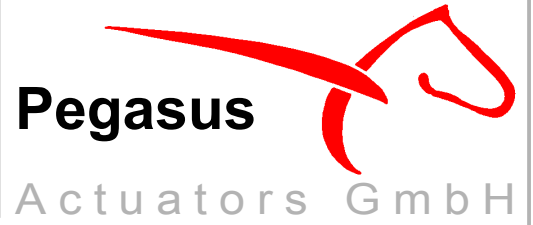
The overload protection limits the performance of the actuator during overload conditions.

Der Überlastschutz limitiert die Leistung des Aktuators während einer Überlastungssituation.



**“tough tech for tough environments“**

# PA-R-135 servo-actuator



- dimensions in: mm
- scale 1:1