



### Features at a glance

- The PFA6/S-600-4200 is a potentiometric wire transducer that converts a linear movement into an analogue resistance signal, 0-10 V voltage signal or 4-20 mA current signal.
- It consists of a rotating precision potentiometer operated by winding and unwinding a stainless-steel wire.
- It offers a simple and effective system for measuring linear movements.
- The main applications are cranes, rolling shutters, hydraulic and pneumatic pistons, automatic wood, marble, and glass working machinery, etc.
- The design of the wire transducer is particularly compact with a robust housing made of black anodized aluminium; position of cable output is available in two different versions.

### Mechanical characteristics

Version	PFAS-600	PFAS-1000	PFAS-2000
Measuring length [mm]	0-600	0-1000	0-2000
Stroke length [mm]	625	1050	2050
Dimension [mm]	40 x 68,5	40 x 68,5	40 x 68,5

Version	PFAS-2500	PFAS-3200	PFAS-4200
Measuring length [mm]	0-2500	0-3200	0-4200
Stroke length [mm]	2520	3220	4220
Dimension [mm]	48 x 74	48 x 74	48 x 74

Wire strength	max. ~ 1,8 N
Linearity	± 0,25 %
Material/ housing	Aluminium, anodized black
Speed	max. 0,3 m/s
Operating temperature	-10 °C bis 70 °C
Relative humidity	10% bis 90%
Protection class (EN 60529)	IP 54
Weight	300 g (PFAS- 600- 2000) ; 400 g (PFAS- 2500-4200)

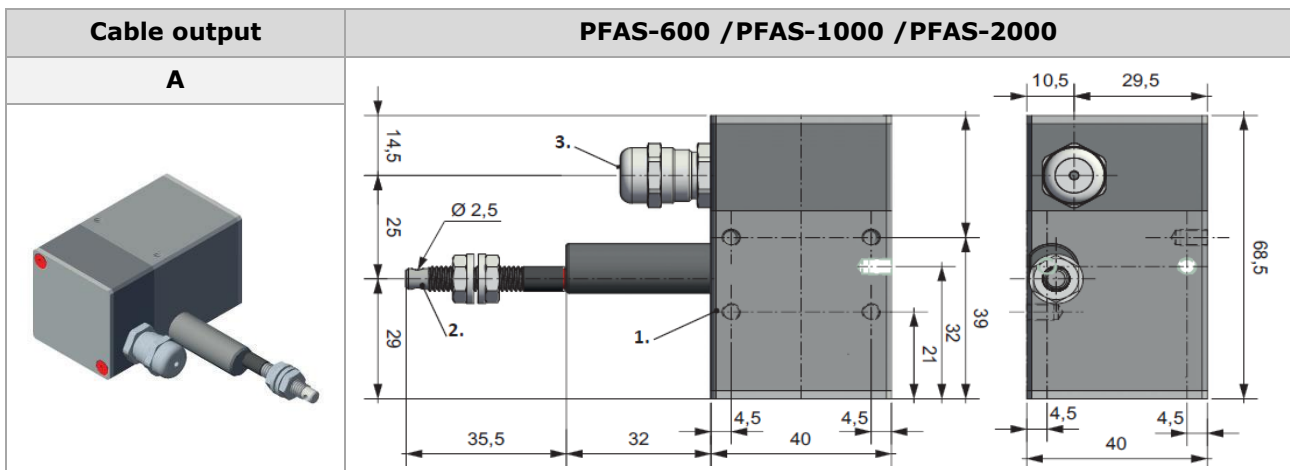
# Datasheet

## Electrical characteristics

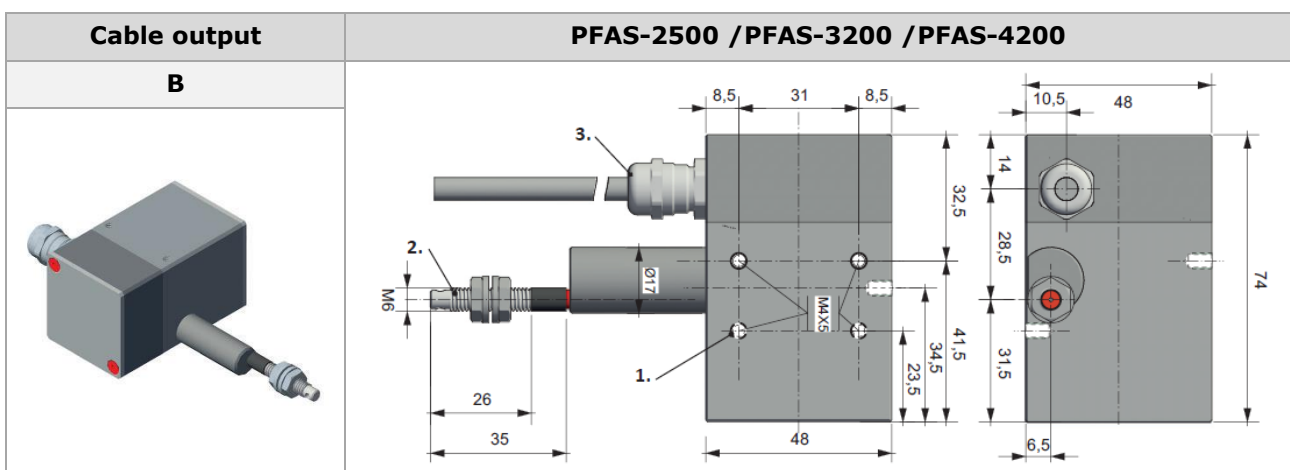
Power supply (for analogue output)	10-30 VDC
Resistance value	10 kΩ ±10%
Power capacity	max. 1 W
Electrical connection	Cable: cable length 2 (standard), 5 or 10 meters
Analogue output (optional)*	I = 4-20 mA V = 0-10 VDC
Directive	Electromagnetic Compatibility (EMC) 2014/30/EU

\* see option ordering code **I** or **V**

## Dimensions (in mm)



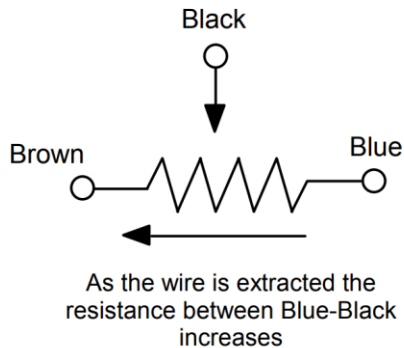
1. Fixing bores M4, 2. Fixing screws M6, 3. Cable gland PG7



1. Fixing bores M4, 2. Fixing screws M6, 3. Cable gland PG7

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## Electrical connection



\*for standard version

## Application examples (combinable devices)

In combination with an electronic measuring display (e.g. V4P, P3X) or a impulse counter, the wire transducer offers a simple and powerful system for measuring linear and angular movements.

V4P	P3X
 <ul style="list-style-type: none"><li>• The V4P is a microprocessor-controlled, multifunctional display with potentiometer input for measuring linear and angular movements.</li><li>• The measured value can be monitored with up to 3 limit contacts via relays, and their status indicated by LEDs.</li><li>• Two analogue outputs, one voltage output 0-10 V or -10 to +10 V, or 4-20 mA with 12-bit resolution.</li><li>• It provides a RS485 serial interface with Modbus RTU.</li></ul>	 <ul style="list-style-type: none"><li>• The P3X is a microprocessor-controlled, 1-axis position indicator with relay or analogue outputs.</li><li>• The indicator processes signals supplied by linear or rotary potentiometric transducers.</li><li>• The 16-key control panel with 6 function displays, allows easy operation and setup of the positioner.</li><li>• It provides a serial interface RS232 or RS485 with Modbus RTU.</li></ul>



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## Ordering example

**Type** PFAS - R - 600 - A - 2.0 - x/xxxx

### Analogue output T (optional)

**R** = 10 kOhm  
**I** = 4 - 20 mA  
**V** = 0 - 10 VDC

### Measuring length

**600** = 600 mm  
**1000** = 1000 mm  
**2000** = 2000 mm  
  
**2500** = 2500 mm\*\*  
**3200** = 3200 mm\*\*  
**4200** = 4200 mm\*\* (max. measuring length)

### Cable output


**A** = Version A  
**B** = Version B

### Cable length

**2.0** = 2 m (standard)  
**5.0** = 5 m  
**10.0** = 10 m

### Special version (optional, on request)\*

Calibrated measuring path  
x/xxxx = x- xxxx mm

-  \* Further measuring length available on request as special version.
- \*\* Larger construction form beginning from measuring length 2500 mm, see table.

Manufacturer:

