# POTENTIOMETRIC WIRE TRANSDUCER PFAS600T PFAS1000T PFAS2000T PFAS2500T PFAS3200T PFAS4200T



## **Description**

The PFAS\_T-I/V is wire potentiometer position transducer that convert a linear motion into an analogue 0-10V voltage signal or 4-20mA current signal.

They consist of a rotating precision potentiometer operated by the winding and unwinding of a stainless steel wire.

It constitutes a simple but effective system to measure linear displacements on machine tools, marble, glass and woodworking machinery etc, to a degree of resolution of  $\pm~0.1$  mm.

#### Connection

BROWN +15÷30VDC

GREEN GND WHITE COM YELLOW OUT

GREY not connected

When the wire is extracted, the value of the analogue output increases

## Assembling precautions

- ♦ The incremental wire transducer must be installed on a level surface.
- Do not release the wire of the transducer too rapidly.
- Do not over-tighten the fastening screws in order to avoid deforming the housing.
- Do not bend or distort the wire.
- ♦ Don't forget to pull the wire along its own axis and avoid misalignments over 2°.
- Do not exceed the maximum travel of the wire.
- ♦ For electrical connections don't forget to use a shielded cable, and keep it separated from power lines or sources of electromagnetic interferences.
- ◆ Do not squeeze or pull the feed cable.
- Connect the electrical parts with care and attention: a measure of a connection annuls the guarantee.

VERSION	MAX TRAVEL	LINEARITY
PFA600T	625 mm	± 0,25%
PFA1000T	1050 mm	± 0,25%
PFA2000T	2050 mm	± 0,25%
PFA2500T	2520 mm	± 0,25%
PFA3200T	3220 mm	± 0,25%
PFA4200T	4220 mm	± 0,25%

### **Technical Characteristics**

♦ Maximum speed 0,3 m/s

♦ Power supply 15-30VDC max 50mA

♦ Analogic output 0-10V or 4-20 mA (must be specified in order)

◆ Degree of protection IP54

♦ Wire strength Max 1,8 N

◆ Temperature of operation
◆ Relative humidity
-10 - 70°C
10 - 90%

♦ Relative humidity
♦ Weight
10 - 90°
400 gr.

◆ Black Anodized aluminium

♦ Output with 3-pole 2-metre-long screened cable, other lenght on request

◆ Directive: 2014/30/EU Electromagnetic compatibility, 2011/65/EU RoHS

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