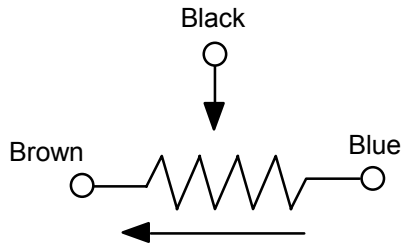
POTENTIOMETRIC WIRE TRANSDUCER
PFAS600 PFAS1000 PFAS2000
PFAS2500 PFAS3200 PFAS4200

FIAMA since 1913
COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV GL = ISO 9001:2015 =

Description

The instruments PFAS_ are potentiometric position wire transducers which convert a linear displacement into a resistance change.
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 ± 0.1 mm.

Connection :



As the wire is extracted the resistance between Blue-Black 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	RESISTANCE	LINEARITY
PFA600	625 mm	10 KOhm	± 0,25%
PFA1000	1050 mm	10 KOhm	± 0,25%
PFA2000	2050 mm	10 KOhm	± 0,25%
PFA2500	2520 mm	10 KOhm	± 0,25%
PFA3200	3220 mm	10 KOhm	± 0,25%
PFA4200	4220 mm	10 KOhm	± 0,25%

Technical Characteristics

- Maximum speed 0,3 m/s
- Degree of protection IP54
- Wire strength Max 1,8 N
- Temperature of operation -10 - 70°C
- Relative humidity 10 - 90%
- Weight 400 gr.
- Anodized aluminium
- Output with 3-pole shield cable length: 2m, 3m, 5m, 10m
- Directive: 2014/30/EU Electromagnetic compatibility, 2011/65/EU RoHS