

# POTENTIOMETRIC WIRE TRANSDUCER MODEL PF50-900 T-I/V OUT 0-10V 4-20mA



## Description

The PF50-900 T-I/V are wire potentiometer position transducers that convert a linear motion into an analogue 0-10V voltage signal or 4-20mA current signal. It consists of a rotary precision potentiometer operated by winding and unwinding the a stainless steel wire. Combined with a electronic display unit (e.g. the 4 digit V4P model or the 5 digit VE6P model), these models constitute a simple and effective system for measuring linear displacements on machine tools and marble/glass/wood working machinery with a resolution of  $\pm 0.1$  mm.

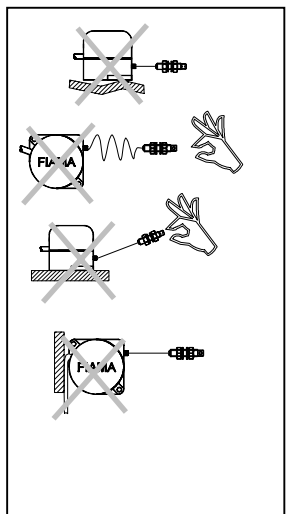
## Connection :

BROWN	+15÷30VDC
GREEN	GND
WHITE	COM
YELLOW	OUT
GREY	not connected

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

## Installation precautions

- ◆ The incremental wire transducer must be mounted on a level surface.
- ◆ Do not release the wire of the transducer abruptly.
- ◆ Do not over-tighten the fastening screws so as not to deform the housing.
- ◆ Avoid bending or distorting the wire.
- ◆ Always pull the wire along its own axis and avoid misalignments exceeding 2°.
- ◆ Do not exceed the maximum stroke of the wire.
- ◆ For electrical connections always use a shielded cable, keeping it separate from power lines or sources of electromagnetic interference.
- ◆ Do not squeeze or pull the power cable.
- ◆ Make the electrical connections with due care and attention: failures due to connection errors render the guarantee null and void.



VERSION	MAX. STROKE	LINEARITY	Number of cycles
PF50	60 mm	$\pm 0,25\%$	500.000
PF60	63 mm	$\pm 0,25\%$	500.000
PF100	101 mm	$\pm 0,25\%$	500.000
PF200	220 mm	$\pm 0,25\%$	500.000
PF300	360 mm	$\pm 0,25\%$	400.000
PF500	508 mm	$\pm 0,25\%$	400.000
PF700	730 mm	$\pm 0,25\%$	250.000
PF900	930 mm	$\pm 0,25\%$	250.000

## Technical Characteristics

- ◆ Maximum speed 0,5 m/s
- ◆ Power supply 15-30 VDC, max 50mA
- ◆ Analogic output V: 0-10V or I: 4-20 mA (must be specified in order)
- ◆ Degree of protection IP54
- ◆ Colour RAL 7004 Grey
- ◆ Temperature of operation -10 - 70°C
- ◆ Relative humidity 10 - 90%
- ◆ Weight 80 gr.
- ◆ Technopolymer, blow-resistant, self-exting.housing resistant to solvents, petrol, oils & grease.
- ◆ Output with 3-pole 2-metre-long screened cable, others values on request
- ◆ Directive: 2014/30/EU Electromagnetic compatibility, 2011/65/EU RoHS