INCREMENTAL WIRE TRANSDUCER EF500 EF700 EF900

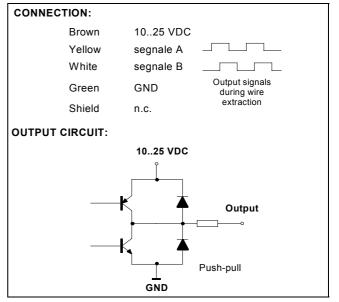


Description

The EF500 and EF700 are incremental wire transducers which convert a linear displacement into coded digital pulses.

They consist of incremental optical encoder operated by the winding and unwinding of a stainless steel wire with a maximum stroke of 500mm (EF500) and 700mm (EF700).

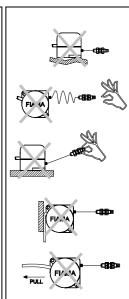
Combined with a programmable electronic counter (e.g. a 5-digit F1X, or a 6-digit F2X), they constitute an excellent system for measuring positions on machine tools, marble, glass and wood working machinery, etc.to a precision degree of ±0.1mm.





Assembling precautions

- The incremental wire transducer must be mounted on a level surface.
- Do not release the wire of the transducer too rapidly.
- 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 travel of the wire.
- ◆ The power supply must fall within the admissible range, a value exceeding this range or an alternate current could damage the transducer.
- ♦ For electrical connections always use a screened cable, keeping it separate from power lines or sources of electromagnetic interference.
- Do not squeeze or pull the feed cable.
- Make the electrical connections with due care and attention: a failure due to a connection error renders the guarantee null and void.



Technical Characteristics

Power supply 10 ÷ 25 Vdc ±10%, max 60 mA protection against polarity inversion

Resolution 256 pulses / 102 mm of wire unwound

Maximum travel EF500: 500 mm, EF700:700mm; EF900 900mm

Number of cycles 150000 Maximum speed 2 m/s

Output signals signals A and B with push-pull output; a open NPN or PNP collector on request

Maximum output current 20 mA
Degree of protection IP54

 $\begin{array}{lll} \mbox{Colour} & \mbox{RAL 7004 Grey} \\ \mbox{Temperature of operation} & -10 \div 70 \ ^{\circ}\mbox{C} \\ \mbox{Relative humidity} & 10 \div 90 \ \% \\ \mbox{Weight} & 80 \ \mbox{gr} \\ \end{array}$

Technopolymer, blow-resistant, self-exting.housing resistant to solvents, petrol, oils & grease.

Output with 4-pole 2-metre-long screened cable.

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

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