CEMB S.p.A. Costruzioni Elettro Meccaniche ing. BUZZI & C. SpA sede legale: Via Risorgimento, 9 - 23826 Mandello del Lario (Lc) Italy casella postale 220 - tel +39 0341 706111 - www.cemb.com Azienda certificata UNI EN ISO 9001:2000





Transducer mod. T6-H



FUNCTION

The transducer mod. T6-H is used to carry out machine ROTATION SPEED measurements, by assembling the transducer in correspondence of a gearwheel (measuring shaft) of which the characteristics are known. The transducer is fit for ZERO SPEED measures.

PRINCIPLE OF OPERATION

The transducer mod. T6-H is a differential hall effect transducer: the magnetic field, generated by an internal permanent magnet, is modulated by the wheel tooth presence. The internal electronics generates a square wave output which represents tooth presence - absence. The wheel must be made in ferromagnetic material.

TECHNICAL CHARACTERISTICS

Measure type	: Differential hall
Measure field	: 0 to 25000 Hz
Power supply	: 5 to 30Vdc
Output	: Push Pull - Max. 25mA
Case material	: Stainless steel
Use field	: Temperature = -40°C to +125°C (sensor) -40°C to +85°C(connector) Humidity = max 100%
Protection = IP65	
Weight : ~ 0,2 Kg	
Maintenance : None	
Attached drawings :	82720-P = Overall dimensions,
	clamping, connections.

TRANSDUCER POSITIONING

- 1) Predispose an opportune support for transducer housing (hole M14x1,5).
- 2) Assemble the transducer in accord to the drawing, having care to position the sensor notches as indicated.
- 3) Record the gap between the transducer measure area and the measuring shaft tooth top, lock in position. The gap can be included between 0.5mm and 2.5mm for a standard wheel, 60 teeth, diameter 120mm; in the other cases it can be included between 0.5mm and 3.5mm, according to the profile type. The gap doesn't influence the sensor output but only its activation.

CONNECTIONS

PIN 1 - Power supply 5 to 30Vdc PIN 2 - Zero - Common PIN 3 - Output PIN 4 - Screen

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