

Rotational Speed Pick-up NM 510 with alternating voltage output



- **Detection of rotational speeds and direct indication on instruments with alternating voltage input or connection to transmitters**
- **For high rotational speeds**
- **Voltage or frequency output proportional to rotational speed**
- **High output power**
- **No power supply required**
- **Direct reading possible**
- **Maintenance-free and rugged**

Rotational speed pick-ups with alternating voltage output are small alternating voltage generators with a stationary winding. A carefully balanced permanent magnet is used as rotor.

Rotational Speed Pick-up NM 510

Data Sheet
14-2.16 EN

Description

In order to couple the rotational speed pick-up with the shaft to be measured, one end of the shaft must be accessible, or a non-slip drive system operating through a gear wheel, chain drive, or toothed belt drive must be possible.

When direct coupling in an axial direction is employed, be sure that the shafts are carefully aligned. The use of a clutch is recom-

mended. Depending on the model the torque requirement ranges between 7 Nmm and 60 Nmm.

The signal voltage delivered is practically a sinusoidal alternating voltage, the amplitude and frequency of which are exactly proportional to the rotational speed. The ratio of output voltage/rotational speed is given with the individual models.

Technical Data

Type designation **NM 510**

Number of poles
 8

Drive speed
 max. 5000 min⁻¹

Starting torque
 10 Nmm

Voltage generated
 10 V, 66²/₃ Hz per 1000 min⁻¹

Balancing tolerance
 ± 1 %

Internal resistance
 12 Ω

Test voltage
 2000 V against housing

Temperature range
 -20 °C...+100 °C

Degree of protection
 shaft outlet IP 40 - housing IP 54

Weight
 0.650 kg

Electrical connection
 screw terminals (E 3 DIN 41 000)

Stock version

Type	Catalog No.
Rotational speed pick-up NM 510 with 100 mm flange Ø	14625-8008100

Dimensional drawing (dimensions in mm)

