CALIPRI

C4X

MEASUREMENT MODULE “RADIAL/AXIAL RUN-OUT“

Data sheet

NEXTSENSE

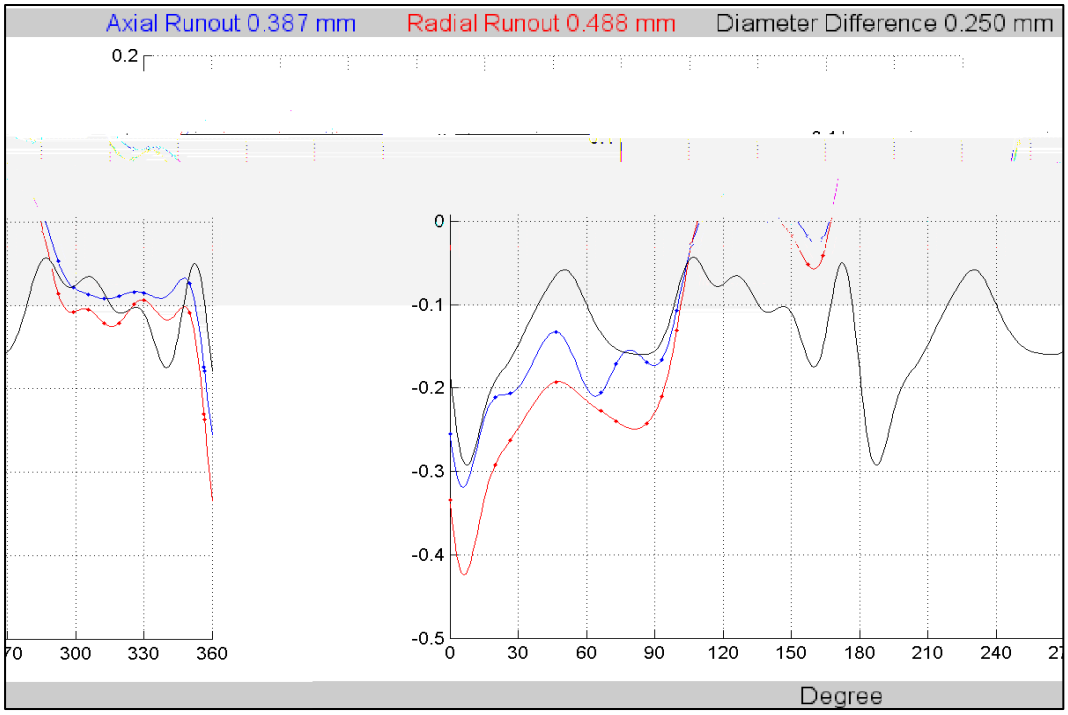
APPLICATION

With the “Radial/Axial Run-Out” module, it is possible to precisely measure the ovality and excentricity and to detect lateral runouts of rail vehicle wheels. With the CALIPRI sensor, the user captures the radial and the axial relative movements of the wheel profile during a wheel rotation. Diameter changes (diameter differences on [illegible] the measurement data on opposite sides of the wheel. The measurement results can subsequently be exported as a CSV file and can be assigned to a certain wheel lathe.

In addition to the comparison of measurement values with relevant reference values, an additional spectrum presentation of the captured data allows for more in-depth analysis to check for any polygonisation of the wheel.

The “Radial/Axial Run-Out“ module includes a v-shaped trigger wedge (IK1), which is to be attached to the inner side of the wheel – [illegible] rolling circle diameter – and which enables the conformal allocation of the measurement data.

MEASURED VARIABLES:



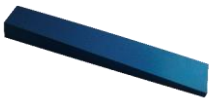
MEASUREMENT METHOD “RUNOUT“

TECHNICAL DATA

Compatibility	CALIPRI C40, [illegible] CALIPRI C42
Accuracy	Absolut accuracy: < ± 30 µm Repeatability: < ± 20 µm
Requirements	Rigid alignment of sensor relative to axle bearing (a.o. by sensor holder) & Uniform rotation of the wheel during the measurement
Product ID	CMM1008

SCOPE OF DELIVERY

- ✓ Software license measurement module “Radial/Axial Run-Out“
  - 1 measurement method (RunOut)
  - In case of supplementary order: activation via remote access
- ✓ Trigger wedge “IK1“
  - Magnetic supporting gauge
  - Enables a conformal allocation of measurements
- ✓ Sensor holder
  - Tripod for CALIPRI sensor with ball head and magnetic holder



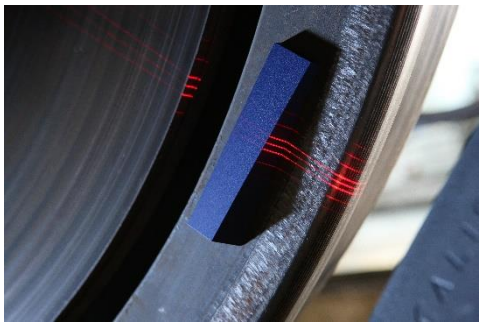
TRIGGER WEDGE „IK1“

CALIPRI SENSOR WITH THE HOLDER AND THE TRIGGER WEDGE

MEASUREMENT PROCESS

MOUNT SENSOR ON TRIPOD

AND



FASTEN TRIGGER WEDGE & START MEASUREMENT

TURN THE WHEEL EVENLY

MEASUREMENT RESULT (SENSOR)

AND

MEASUREMENT RESULT (TABLET PC)

Offers & Live Demonstrations:
sales@nextsense-worldwide.com