

CALIPRI

C4X



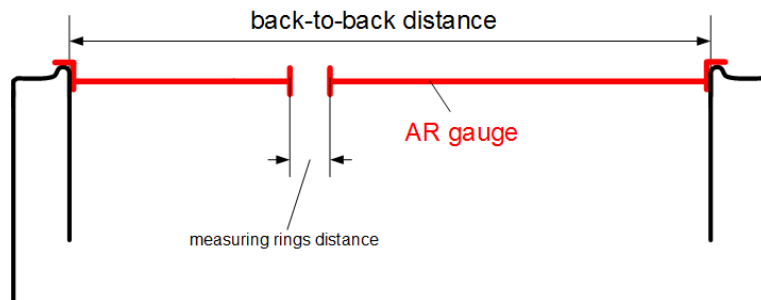
MEASUREMENT MODULE “BACK TO BACK“

Data sheet

NEXTSENSE

APPLICATION

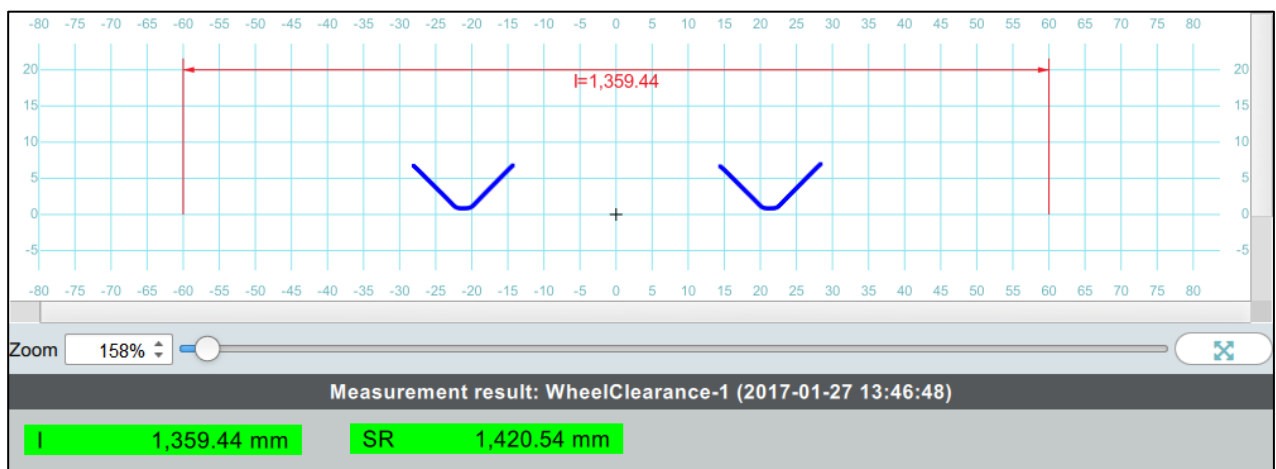
The “Back To Back“ module allows for the precise back to back distance measurement of wheelsets. Additionally, the track gauge can be calculated and displayed if the wheel profiles haven been measured additionally.



The supporting gauge (AR-Gauge) is used to measure back to back distance and is included in this module offering. The carbon fiber gauge simply clamps between the wheels to allow a reference plane and distance calculation. It can be quickly mounted and dismantled on track, or can be placed on any free wheelset. Subsequently, the back to back is measured and recorded. The gauge provides an automatic temperature compensation.

All of the measured variables are displayed on the sensor and tablet PC within a few seconds. These values can then be compared automatically with your organizations reference values.

MEASURED VARIABLES:



MEASUREMENT METHOD „BACKTOBACK“

TECHNICAL DATA

We offer two different types of the AR-Gauge. Furthermore, custom-built gauges can be ordered with pre-defined nominal back-to-back distance.

	AR1360EL	AR1360ELM	CSL
Type	with clapping mechanism	without clapping mechanism	with or without clapping mechanism
Shipping weight	5,0 kg (11.0 lbs)	8,0 kg (17.6 lbs)	custom-built
Packaging (Transport case)	100 x 25 x 25 cm (3'3" x 9.8" x 9.8")	160 x 25 x 25 cm (5'3" x 9.8" x 9.8")	custom-built
Product ID	CMM1006/1360EL	CMM1006/1360ELM	CMM1006/CSL
Net weight	ca. 1,5 kg (3.3 lbs)		custom-built
Measurement range	Back to back: 1330 – 1380 mm (4'4" – 4'6")		custom-built
Contact point	30 mm (1.18") below top of wheel flange		Back-to-back distance: specification of the customer necessary
Accuracy	Absolute accuracy: < $\pm 200 \mu\text{m}$ Repeatability: < $\pm 35 \mu\text{m}$		
Compatibility	CALIPRI C40, CALIPRI C41, CALIPRI C42		



AR-GAUGE
AR1360EL / AR1360ELM

SCOPE OF DELIVERY:

- ✓ Software license measurement module „Back To Back“
 - 1 measurement method (BackToBack)
 - In case of supplementary order: activation via remote access
- ✓ AR-Gauge incl. calibration certificate, delivered in transport case for distribution and storage
 - Mechanical supporting gauge for back to back distance measurement
 - Applicable for wheel sets with 1360 mm standard back-to-back distance
 - Gauges for other wheel clearances are custom-made and available upon request



BACK TO BACK DISTANCE MEASUREMENT WITH CALIPRI



ADD-ON „Recalibration service“

- New calibration of AR-Gauge
- Product ID: CSM3008/C4X

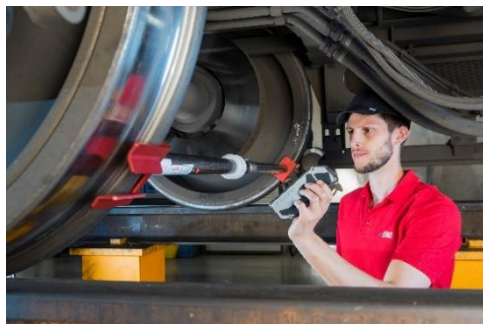
Offers & Live Demonstrations:

sales@nextsense.at

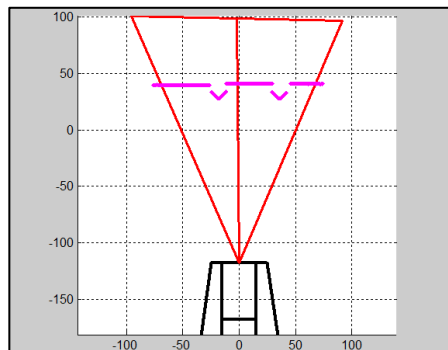
MEASUREMENT PROCESS



AR-GAUGE FIXTURE



MEASUREMENT PROCESS

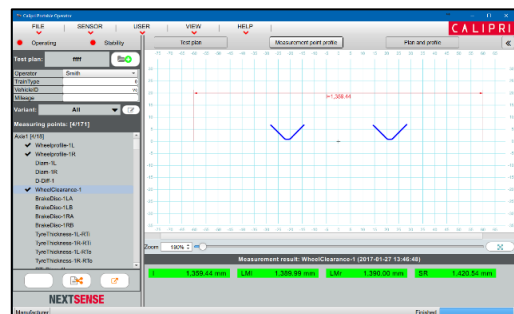


SENSOR GUIDANCE (TUTOR)



MEASUREMENT RESULT (SENSOR)

AND



MEASUREMENT RESULT (TABLET PC)