

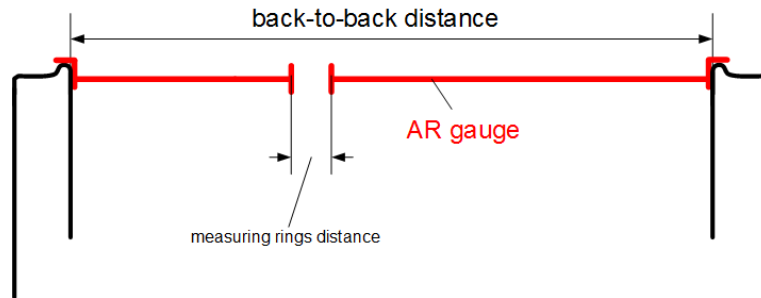
Measurement module “Back to Back”





1 APPLICATION

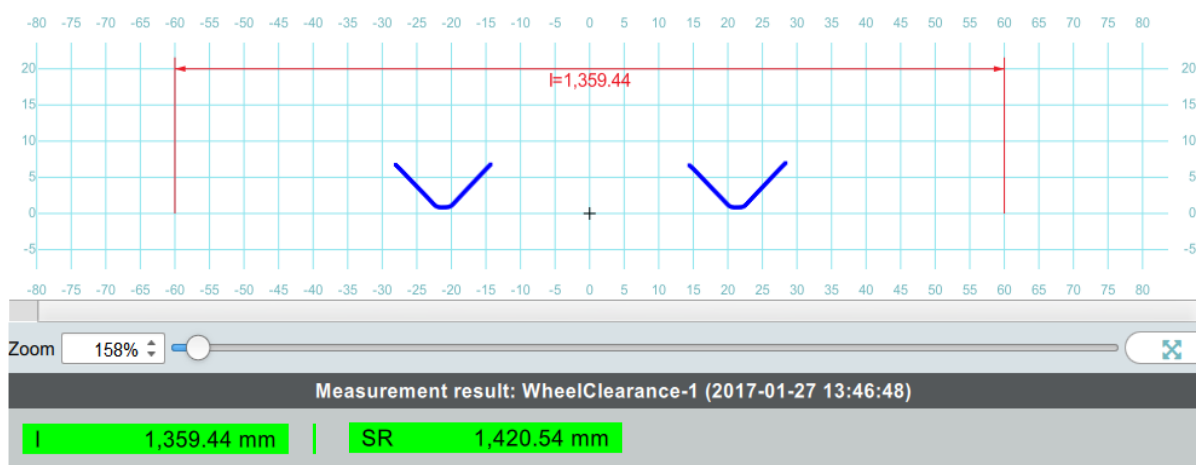
The “Back To Back“ module allows for the precise back to back distance measurement of wheelsets. Additionally, the check gauge (back-to-back + flange width) can be calculated and displayed if the wheel profiles haven been measured.



The supporting gauge (AR-Gauge) is used to measure back-to-back distance and is included in this module offering. The carbon fibre 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 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”

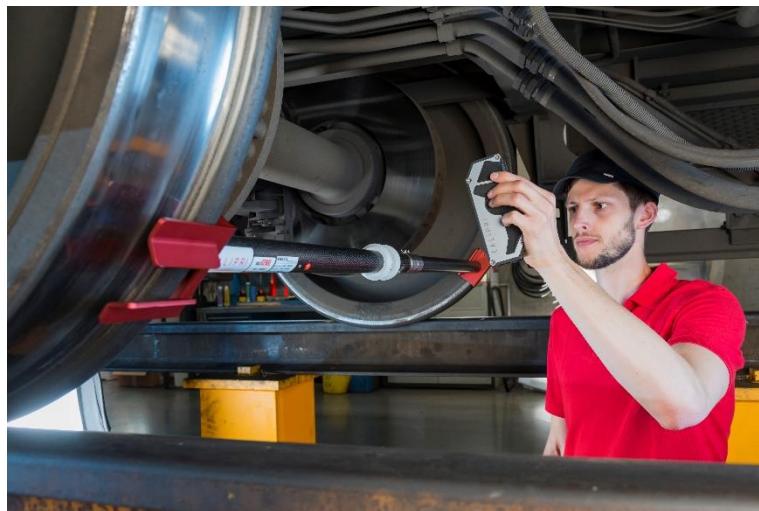
2 TECHNICAL DATA

We offer 2 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: < $\pm 35 \mu\text{m}$		
Dimensions	Back-to-back, flange width left, flange width right		
Standards & certificates	CALIPRI is approved and uses i.a. in Germany (DB), Austria (ÖBB), Switzerland (SBB), France (SNCF), China (Chengdu Railway Bureau) and the Czech Republic (SŽDC). This measuring module has been successfully tested according to JCGM100: 2008, DIN V ENV 13005: 1999-06, DIN EN 13715: 2001-01, DIN EN 15313: 2016-09 and DIN 27201-9: 2017-06.		
Compatibility	CALIPRI C41, CALIPRI C42		

3 SCOPE OF SUPPLY AND SERVICES

- 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



BackToBack distance measurement with CALIPRI

4 ADD-ON



AR-Gauge AR1360EL / AR1360ELM

“Recalibration service“

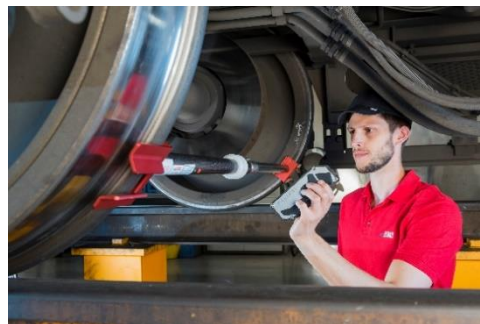
- New calibration of AR-Gauge
- Product ID: CSM3008/C4X

Offers & Live Demonstrations
sales@nextsense-worldwide.com

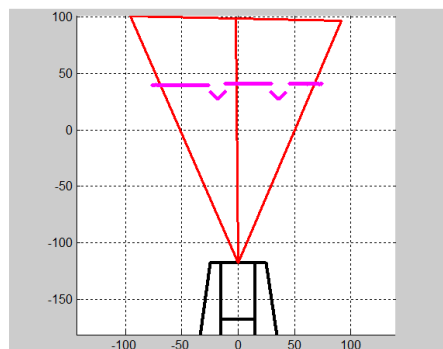
5 MEASUREMENT PROCESS



AR-Gauge fixture



Measurement process

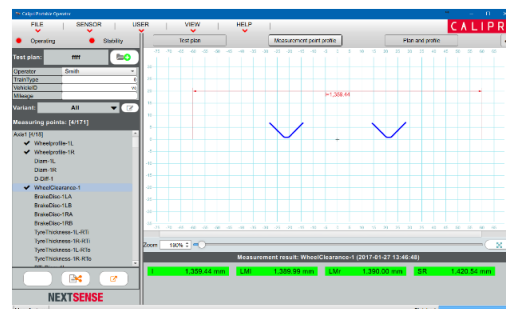


Sensor guidance (tutor)



Measurement result (sensor)

AND



Measurement result (tablet PC)



HEXAGON

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