



# OIML Certificate

**OIML Member State**  
The Netherlands

Number R60/2017-A-NL1-21.19  
Project number 2587826  
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Issuing authority NMI Certin B.V.  
Person responsible: M.Ph.D. Schmidt

Manufacturer Ohaus Corporation  
7 Campus Drive, Suite 310  
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United States of America

Identification of the certified type A **single point load cell**, with strain gauges,  
Type : LBZ3-A-xx-xxx-xx-xx - Series

Characteristics See next page

This OIML Certificate is issued under scheme A.

This Certificate attests the conformity of the above identified Type (represented by the sample(s) identified in the OIML Test Report) with the requirements of the following Recommendation of the International Organization of Legal Metrology (OIML):

**OIML R 60** - Edition 2017 (E) for accuracy class C

This Certificate relates only to the metrological and technical characteristics of the type of measuring instrument covered by the relevant OIML International Recommendation above-identified. This Certificate does not bestow any form of legal international approval.

*Important note:* Apart from the mention of the Certificate's reference number and the name of the OIML Member State in which the Certificate was issued, partial quotation of the Certificate and of the associated OIML Test Report(s) is not permitted, although either may be reproduced in full.

Issuing Authority

**NMI Certin B.V., OIML Issuing Authority NL1**  
30 April 2021

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Certification Board

This document is issued under the provision that no liability is accepted and that the applicant shall indemnify third-party liability.

The notification of NMI Certin B.V. as Issuing Authority can be verified at [www.oiml.org](http://www.oiml.org)

This document is digitally signed and sealed. The digital signature can be verified in the blue ribbon on top of the electronic version of this certificate.



The conformity was established by the results of tests and examinations provided in the associated OIML Test Reports:

- No. R60/2000-NL1-10.22A dated 10 November 2010 that includes 64 pages;
- No. R60/2000-NL1-10.22B dated 10 November 2010 that includes 63 pages.

### Characteristics of the load cell:

Characterization of load cell capabilities	Analog-passive load cell					
Maximum capacity ( $E_{max}$ )	50 kg up to and including 100 kg			150 kg up to and including 500 kg		
Minimum dead load	0 kg					
Accuracy Class	C3	C4	C5	C3	C4	C5
Rated Output	2 mV/V $\pm$ 0,2 mV/V					
Maximum number of load cell intervals (n) <sup>(1)</sup>	3000	4000	5000	3000	4000	5000
Ratio of minimum LC Verification interval <sup>(1)</sup> $Y = E_{max} / V_{min}$	10000	15000	20000	10000	15000	20000
Ratio of minimum dead load output return <sup>(1)</sup> $Z = E_{max} / (2 * DR)$	4200	6000	7000	3300	4400	5500
Input impedance	406 $\Omega \pm 6 \Omega$					
Temperature range	-10 °C / + 40 °C					
Fraction $p_{LC}$	0,7					
Humidity Class	CH					
Safe overload	150 % of $E_{max}$					
Output impedance	350 $\Omega \pm 3 \Omega$					
Recommended excitation	5 – 12 V AC / DC					
Excitation maximum	18 V AC / DC					
Transducer material	Alluminium alloy					
Atmospheric protection	Silicon rubber					

### Remarks:

1. The characteristics for  $n_{max}$  and Y can be reduced separately. Z is proportional or equal to  $n_{max}$

Each load cell produced is provided with an accompanying document with information about its characteristics.