

OIML Member State
The Netherlands

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Project number 2489220
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Issuing authority NMI Certin B.V.
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Identification of the certified type A **bending beam load cell**, with strain gauges.
Type : SLB215, SLB415

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.

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Issuing Authority **NMI Certin B.V., OIML Issuing Authority NL1**
26 May 2020

Certification Board

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

- No. NMI-2489220-01 dated 26 May 2020 that includes 51 pages;
- No. NMI-2489220-02 dated 26 May 2020 that includes 46 pages.

Characteristics of the load cell:

Characterization of load cell capabilities	Analog-passive load cell	
Maximum capacity (E_{max})	110 kg up to and including 550 kg	1100 kg up to and including 5500 kg
Minimum dead load	0,4 kg	
Accuracy Class	C	
Rated Output	0,97 mV/V or 1,94 mV/V	
Maximum number of load cell intervals (n) ⁽¹⁾	3000	
Ratio of minimum LC Verification interval ⁽¹⁾ $Y = E_{max} / V_{min}$	11000	21000
Ratio of minimum dead load output return ⁽¹⁾ $Z = E_{max} / (2 * DR)$	3000	
Input impedance	382 $\Omega \pm 4 \Omega$	
Temperature range	-10 °C / +40 °C	
Fraction p_{LC}	0,7	
Humidity Class	CH	
Safe overload	150% of E_{max}	
Output impedance	350 $\Omega \pm 1 \Omega$	
Recommended excitation	5 - 15 V DC	
Excitation maximum	20 V DC	
Transducer material	Alloy steel	
Atmospheric protection	Hermetically sealed by laser welding	

Remark:

1. The characteristics for n_{max} , Y and Z can be reduced separately.

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

The above identified Types (represented by the samples identified in the OIML Test Reports) have been found to comply with the additional national requirements established by the United States of America (NIST Handbook 44 and NCWM Publication 14), included in the Utilizer Declaration:

- R 60 OIML-CS rev.2 Additional requirements from the United States Accuracy class III L;
- R 60 OIML-CS rev.2 Additional requirements from the United States Marking requirements.