

OIML Member State
The Netherlands

Number R60/2017-A-NL1-22.02
Project number 2414293
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Issuing authority

NMi Certin B.V.
Person responsible: M.Ph.D. Schmidt

Applicant and
Manufacturer

Ningbo AIEN Electronics Co., Ltd.
No. 66 Xiantan Road, Langxia Street
Yuyao City, Ningbo
China

Identification of the
certified type

A **double ended shear beam load cell**, with strain gauges.
Registered trade name : AIEN
Type : HQS

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
6 January 2022

Certification Board

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The conformity was established by the results of tests and examinations provided in the associated OIML Type Evaluation Report(s):

- No. NMI-2414293-01 dated 6 January 2022 that includes 51 pages.

Characteristics of the load cell:

Characterization of load cell capabilities	Analog-passive load cell
Maximum capacity (E_{max})	10000 kg up to and including 50000 kg
Minimum dead load	0 kg
Accuracy Class	C
Rated Output	2,0 mV/V
Maximum number of load cell intervals (n) ⁽¹⁾	2500
Ratio of minimum LC Verification interval ⁽¹⁾ $Y = E_{max} / V_{min}$	30000
Ratio of minimum dead load output return ⁽¹⁾ $Z = E_{max} / (2 * DR)$	2500
Input impedance	750 $\Omega \pm 10 \Omega$
Temperature range	-10 °C / + 40 °C
Fraction p_{LC}	0,7
Humidity Class	CH
Safe overload	150 % of E_{max}
Output impedance	702 $\Omega \pm 5 \Omega$
Recommended excitation	10 V AC / DC
Excitation maximum	15 V AC / DC
Transducer material	Alloy steel
Atmospheric protection	Hermetically welded

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 Type (represented by the sample(s) identified in the OIML Test Report) 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.