

OIML Member State
The Netherlands

Number R60/2021-A-NL1-24.09 revision 0
Project number 3580846
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Issuing authority

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

Applicant and
Manufacturer

Changzhou Runningtech Sensing Co., Ltd.
No.20 Wangxian Road, Xinbei district, Jiangsu province
Changzhou
China

Identification of the
certified type

A **bending beam load cell**, with strain gauges.
Registered trade name : Changzhou Runningtech
Type : SP1041, SP1241, SP1243, SP1245,
SP1250, SP1260, SP1263

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 60-1:2021 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 June 2024

Certification Board

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The conformity was established by the results of tests and examinations provided in the associated reports:

- No. NMI-3580846-01 dated 6 June 2024 that includes 51 pages;
- No. NMI-3580846-02 dated 6 June 2024 that includes 46 pages.

Characteristics of the load cell:

Characterization of load cell capabilities	Analog-passive load cell	
Maximum capacity (E_{max})	60 kg up to 150 kg	150 kg up to and including 750 kg
Minimum dead load	0 kg	
Accuracy Class	C	
Rated Output	2,0 mV/V \pm 0,1 mV/V	
Maximum number of load cell intervals (n) ⁽¹⁾	6000	
Ratio of minimum LC Verification interval ⁽¹⁾ $Y = E_{max} / V_{min}$	15000	11000
Ratio of minimum dead load output return ⁽¹⁾ $Z = E_{max} / (2 * DR)$	6000	
Input impedance	403 Ω \pm 5 Ω	
Temperature range	-10 °C / + 40 °C	
Fraction p_{LC}	0,7	
Humidity Class	CH	
Safe overload	150 % of E_{max}	
Output impedance	350 Ω \pm 3 Ω	
Recommended excitation	10 V AC / DC	
Excitation maximum	15V V AC / DC	
Transducer material	Aluminium	
Atmospheric protection	Silicone rubber potting	

Remarks:

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.



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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.

Revision History

Revision	Date	Change(s)
0	2024-06-06	Initial issue.