

Issued by	NMi Certin B.V.
In accordance with	Paragraph 8.1 of EN 45501:1992/AC:1993, OIML R60:2000, WELMEC 2.4 Issue 2.
Manufacturer	Keli Sensing Technology (Ningbo) Co., Ltd. No. 199 Changxing Road, Jiangbei District, Ningbo China
In respect of	A <b>single point load cell</b> , with strain gauges, tested as a part of a weighing instrument. Manufacturer : Keli Sensing Technology (Ningbo) Co., Ltd. Type : ILE-SS
Characteristics	$E_{max}$ : 50 kg up to and including 250 kg Accuracy class : C In the description number TC8053 revision 0 further characteristics are described.
Description and documentation	The load cell is described in the description number TC8053 revision 0 and documented in the documentation folder TC8053-1, appertaining to this test certificate.
Remarks	Summary of the test involved: see Appendix number TC8053 revision 0.

Issuing Authority **NMi Certin B.V. Notified Body number 0122**  
 10 April 2012

C. Oosterman  
 Head Certification Board

**NMi Certin B.V.**  
 Hugo de Grootplein 1  
 3314 EG Dordrecht  
 The Netherlands  
 T +31 78 6332332  
 certin@nmi.nl  
 www.nmi.nl

This document is issued under the provision that no liability is accepted and that the applicant shall indemnify third-party liability.  
 The designation of NMi Certin BV.as Notified Body can be verified at <http://ec.europa.eu/enterprise/newapproach/nando/>

Parties concerned can lodge objection against this decision, within six weeks after the date of submission, to the general manager of NMi (see "Regulation objection and appeal against decisions of NMi" [www.nmi.nl](http://www.nmi.nl))

Reproduction of the complete document only is permitted

## 1 General information about the load cell

All properties of the load cell, whether mentioned or not, may not be in conflict with the standard mentioned in the test certificate.

### 1.1 Essential parts

Description	Drawing number	Rev.	Remarks
Outline drawing ILE-SS	8053/0-01	0	Mechanical/ Electrical

Cable:

- The load cell is provided with a 4-wire system:
  - The cable length shall not be modified.
  - The cable length is mentioned in the accompanying load cell document or on the label;
- The load cell is provided with a 6-wire system (=“Remote-sensing”):
  - The cable length is not limited.
- The cable should be a shielded cable, the shield is not connected to the load cell.

### 1.2 Essential characteristics

Fraction $P_i$	: 0,7
Maximum capacity ( $E_{max}$ )	: 50 kg up to and including 250 kg
Humidity Class	: CH
Temperature range	: -10 °C / +40 °C
Accuracy Class	: C
Maximum number of load cell intervals (n)	: 3000
Ratio of minimum LC Verification interval	: 10000
$Y = E_{max} / V_{min}$	
Ratio of minimum dead load output return	: 3000
$Z = E_{max} / (2 * DR)$	

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

Each produced load cell is supplied with information about its characteristics.



# Description

Number **TC8053** revision 0  
Project number 11200809  
Page 3 of 4

Minimum dead load	: 0 kg
Safe overload	: 150% of $E_{\max}$
Rated Output	: 2,0 mV/V $\pm$ 0,2 mV/V
Input impedance	: 383 $\Omega \pm 10 \Omega$
Output impedance	: 350 $\Omega \pm 3 \Omega$
Recommended excitation	: 10 V AC/DC
Excitation maximum	: 15 V AC/DC
Transducer material	: Stainless steel
Atmospheric protection	: Silicon rubber

## 1.3 Essential shapes

The load cell is built according to drawing:

- "Outline drawing ILE-SS", drawing number 8053/0-01.

The data plate is secured against removal by sealing or will be destroyed when removed. The data plate mentions at least the information and markings as described in the OIML R60 document. In the countries where it is mandatory the load cell should bear this test certificate number: TC8053.

Securing:

The connecting cable of the load cell or the junction box is provided with possibility to seal.

Number **TC8053** revision 0  
 Project number 11200809  
 Page 4 of 4

Tests performed for this test certificate:

Test	Institute	type, version, remarks
Temperature test and repeatability (20, 40, -10 and 20 °C)	NMi Certin B.V.	ILE-SS C3 50kg
Temperature effect on minimum dead load output (20, 40, -10 and 20 °C)	NMi Certin B.V.	ILE-SS C3 50kg
Creep (20, 40 and -10 °C)	NMi Certin B.V.	ILE-SS C3 50kg
Minimum dead load output return (20, 40 and -10 °C)	NMi Certin B.V.	ILE-SS C3 50kg
Barometric pressure effects at room temperature	NMi Certin B.V.	ILE-SS C3 50kg
Damp heat, cyclic: marked CH (or not marked)	NMi Certin B.V.	ILE-SS C3 50kg