



Australian Government  
Department of Industry,  
Innovation and Science

## National Measurement Institute

# Supplementary Certificate of Approval

## NMI S547

Issued by the Chief Metrologist under Regulation 60  
of the  
National Measurement Regulations 1999

This is to certify that an approval for use for trade has been granted in respect of the instruments herein described.

SCAIME Model CB50X30t C4 CH 10e Load Cell

submitted by Kelba (Australia) Pty Ltd  
7 Leonard Street  
Hornsby NSW 2077.

**NOTE:** This Certificate relates to the suitability of the pattern of the instrument for use for trade only in respect of its metrological characteristics. This Certificate does not constitute or imply any guarantee of compliance by the manufacturer or any other person with any requirements regarding safety.

This approval has been granted with reference to document NMI R 60, *Metrological Regulation for Load Cells*, dated July 2004.

This approval becomes subject to review on **1/09/22**, and then every 5 years thereafter.

### DOCUMENT HISTORY

Rev	Reason/Details	Date
0	Pattern and variant 1 – approved – certificate issued	4/08/11
1	Pattern and variant 1 – <b>reviewed</b> & updated – certificate issued	14/12/16

## CONDITIONS OF APPROVAL

### General

Instruments purporting to comply with this approval shall be marked with approval number 'NMI S547' and only by persons authorised by the submitter.

Instruments incorporating a component purporting to comply with this approval shall be marked 'NMI S547' in addition to the approval number of the instrument, and only by persons authorised by the submitter.

It is the submitter's responsibility to ensure that all instruments marked with this approval number are constructed as described in the documentation lodged with the National Measurement Institute (NMI) and with the relevant Certificate of Approval and Technical Schedule. Failure to comply with this Condition may attract penalties under Section 19B of the National Measurement Act and may result in cancellation or withdrawal of the approval, in accordance with document NMI P 106.

The values of the performance criteria (maximum number of scale intervals etc.) applicable to an instrument incorporating the pattern approved herein shall be within the limits specified herein and in any approval documentation for the other components.

Signed by a person authorised by the Chief Metrologist to exercise their powers under Regulation 60 of the *National Measurement Regulations 1999*.



**Mario Zamora**

TECHNICAL SCHEDULE No S547

**1. Description of Pattern** **approved on 4/08/11**

A SCAIME model CB50X30t C4 CH 10e compression load cell of 30 000 kg maximum capacity (Figure 1 and Table 1).

**1.1 Method of Mounting**

Mounting is to be in accordance with the manufacturer's instructions and as shown in Figure 2.

**1.2 Markings**

Each load cell is marked with the following:

Manufacturer's mark, or name written in full	SCAIME, France
Model number	.....
Maximum capacity, $E_{max}$	..... kg (or t)
Serial number	.....
Pattern approval mark	NMI No S547

**1.3 Table of Specifications**

Specifications for the pattern are given in Table 1.

**2. Description of Variant 1** **approved on 4/08/11**

The SCAIME CB50X# C4 CH 10e series load cells of other models and with characteristics as listed below in Table 1.

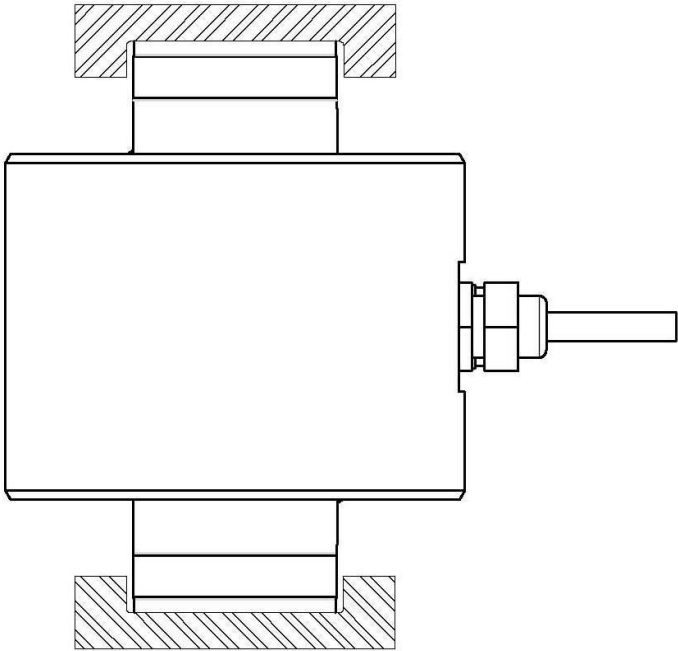
TABLE 1

Type: SCAIME CB50X# C4 CH 10e series as listed below, where # in the model number represents the capacity ( $E_{max}$ ) in the form shown below, e.g. the **pattern** model CB50X30t C4 10e is of 30 000 kg capacity.

Model Number CB50X# C4 CH 10e	# = 5t	# = 10t	# = 20t	# = 30t	# = 40t	# = 60t
$E_{max}$ (kg)	5 000	10 000	20 000	30 000	40 000	60 000
Class	C	C	C	C	C	C
nLC	4000	4000	4000	4000	4000	4000
$V_{min}$ (kg)	0.5	1	2	3	4	6
DR (kg)	0.625	1.25	2.5	3.75	5	7.5
mV/V	2					
Input imp ( $\Omega$ )	820					
Voltage (V)	15					
Cable length (m)	15					
Number of leads	4 (plus shield)					

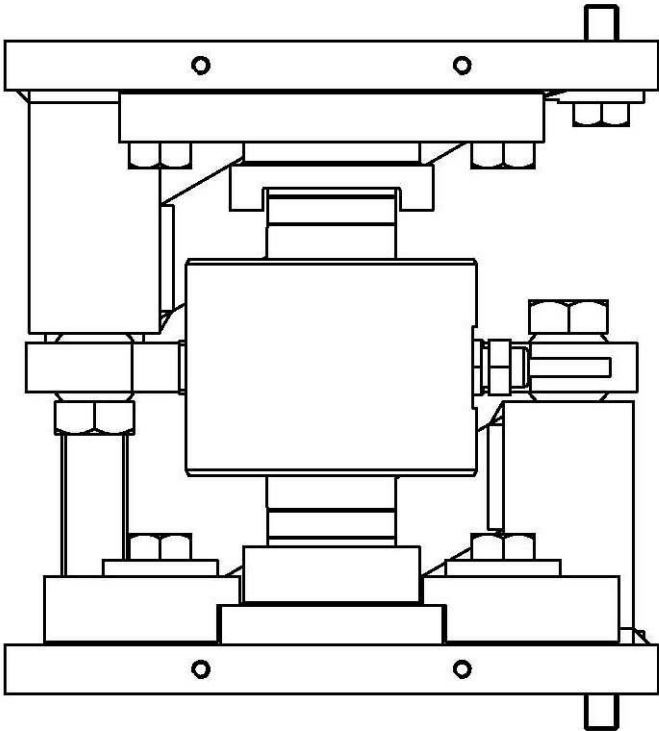
Where:	$E_{max}$	=	Maximum capacity
	nLC	=	Maximum number of verification intervals
	$V_{min}$	=	Minimum value of verification interval
	DR	=	Minimum dead load output return value
	mV/V	=	Output rating (nominal)
	Input imp.	=	Input impedance (nominal)
	Voltage	=	Maximum supply voltage (DC/AC)

FIGURE S547 – 1



SCAIME Model CB50X30t C4 CH 10e Load Cell

FIGURE S547 – 2



Alternative Mounting Arrangement