



Australian Government  
Department of Industry,  
Innovation and Science

## National Measurement Institute

# Supplementary Certificate of Approval

## NMI S347A

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.

SCHENCK Process Model RTN 33t C3 Load Cell

submitted by       SCHENCK Process Australia Pty Limited  
65 Epping Road  
North Ryde   NSW   2113

**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 **1/11/22**, and then every 5 years thereafter.

### DOCUMENT HISTORY

Rev	Reason/Details	Date
0	Pattern and variant 1 approved – certificate issued	14/10/08
1	Pattern and variant 1 updated & <b>reviewed</b> – certificate issued	2/12/16

## CONDITIONS OF APPROVAL

### General

Instruments purporting to comply with this approval shall be marked with approval number 'NMI S347A' and only by persons authorised by the submitter.

Instruments incorporating a component purporting to comply with this approval shall be marked 'NMI S347A' 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*.



**Dr A Rawlinson**

TECHNICAL SCHEDULE No S347A

**1. Description of Pattern** **approved on 14/10/08**

A SCHENCK Process model RTN 33t C3 load cell of 33 000 kg maximum capacity (Figure 1 and Tables 1 and 2).

**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	SCHENCK Process GmbH
Model number	.....
Maximum capacity, $E_{max}$	..... kg (or t)
Serial number	.....
Pattern approval mark	NMI S347A

**1.3 Table of Specifications**

Specifications for the pattern are given below and in Tables 1 and 2.

**2. Description of Variant 1** **approved on 14/10/08**

Certain other models and with characteristics and specifications as listed below and in Tables 2 and 3. Note that the load cells shown in Table 2 do not have a DR value specified.

**TABLE 1**

In all cases	
mV/V	2.85 mV/V
Input imp. (ohms)	4450
Voltage (V)	30 V max AC/DC
Cable length	5 m, 12 m or 15 m according to Tables 2 and 3
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)

**TABLE 2**

SCHENCK Process RTN series load cells of Class C as listed below.

(The pattern, model RTN 33t C3, is shown in **bold**.)

Model	E <sub>max</sub> (t)	Class	n <sub>LC</sub>	V <sub>min</sub> (kg)	Cable length (m)
RTN 1t C3	1	C	3000	0.05	5
RTN 2.2t C3	2.2	C	3000	0.11	5
RTN 4.7t C3	4.7	C	3000	0.24	5
RTN 10t C3	10	C	3000	0.50	5
RTN 15t C3	15	C	3000	0.75	5
RTN 22t C3	22	C	3000	1.10	12
<b>RTN 33t C3</b>	<b>33</b>	<b>C</b>	<b>3000</b>	<b>1.65</b>	<b>15</b>
RTN 47t C3	47	C	3000	2.35	12
RTN 68t C3	68	C	3000	3.40	12
RTN 100t C3	100	C	3000	5.00	12
RTN 150t C3	150	C	3000	7.50	5
RTN 220t C3	220	C	3000	11.00	5
RTN 330t C3	330	C	3000	16.50	5
RTN 470t C3	470	C	3000	23.50	5
RTN 1t C4	1	C	4000	0.04	5
RTN 2.2t C4	2.2	C	4000	0.09	5
RTN 4.7t C4	4.7	C	4000	0.20	5
RTN 10t C4	10	C	4000	0.42	5
RTN 15t C4	15	C	4000	0.63	5
RTN 22t C4	22	C	4000	0.92	12
RTN 33t C4	33	C	4000	1.38	15
RTN 47t C4	47	C	4000	1.96	12
RTN 68t C4	68	C	4000	2.83	12
RTN 100t C4	100	C	4000	4.17	12
RTN 1t C5	1	C	5000	0.04	5
RTN 2.2t C5	2.2	C	5000	0.09	5
RTN 4.7t C5	4.7	C	5000	0.20	5
RTN 10t C5	10	C	5000	0.42	5
RTN 15t C5	15	C	5000	0.63	5
RTN 22t C5	22	C	5000	0.92	12
RTN 33t C5	33	C	5000	1.38	15
RTN 47t C5	47	C	5000	1.96	12
RTN 68t C5	68	C	5000	2.83	12
RTN 100t C5	100	C	5000	4.17	12

**TABLE 3**

Additional SCHENCK Process RTN series load cells of Class C as listed below.

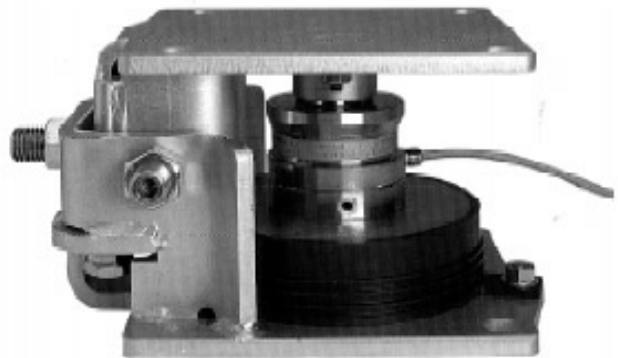
Model	E <sub>max</sub> (t)	Class	n <sub>LC</sub>	V <sub>min</sub> (kg)	DR (kg)	Cable length (m)
RTN 1t C3MI7,5	1	C	3000	0.04	0.07	5
RTN 2.2t C3MI7,5	2.2	C	3000	0.09	0.15	5
RTN 4.7t C3MI7,5	4.7	C	3000	0.20	0.31	5
RTN 10t C3MI7,5	10	C	3000	0.42	0.67	5
RTN 15t C3MI7,5	15	C	3000	0.63	1.00	5
RTN 22t C3MI7,5	22	C	3000	0.92	1.47	12
RTN 33t C3MI7,5	33	C	3000	1.38	2.20	15
RTN 47t C3MI7,5	47	C	3000	1.96	3.13	12
RTN 68t C3MI7,5	68	C	3000	2.83	4.53	12
RTN 100t C3MI7,5	100	C	3000	4.17	6.67	12
RTN 1t C4MI7,5	1	C	4000	0.04	0.07	5
RTN 2.2t C4MI7,5	2.2	C	4000	0.09	0.15	5
RTN 4.7t C4MI7,5	4.7	C	4000	0.20	0.31	5
RTN 10t C4MI7,5	10	C	4000	0.42	0.67	5
RTN 15t C4MI7,5	15	C	4000	0.63	1.00	5
RTN 22t C4MI7,5	22	C	4000	0.92	1.47	12
RTN 33t C4MI7,5	33	C	4000	1.38	2.20	15
RTN 47t C4MI7,5	47	C	4000	1.96	3.13	12
RTN 68t C4MI7,5	68	C	4000	2.83	4.53	12
RTN 100t C4MI7,5	100	C	4000	4.17	6.67	12

FIGURE S347A – 1



SCHENCK Process RTN C3 Series Load Cells

FIGURE S347A – 2



Mounting Arrangements

~ End of Document ~