

# RNT-M Torsional ring module

## Description

Capacities: ( $E_{max}$ )  
1,2,2,4,7,10,22,33,47t

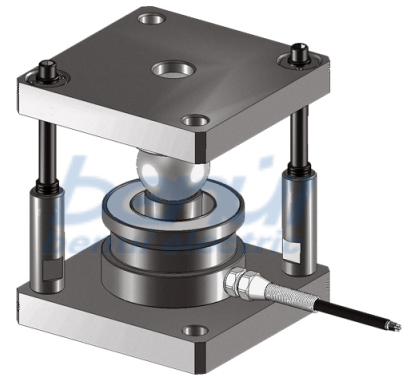
Rated output:  
2.0mV/V  
Digital: 1,000,000d

Accuracy:  
C3 OIML R60

Material of elastomer:  
Alloy steel or stainless steel

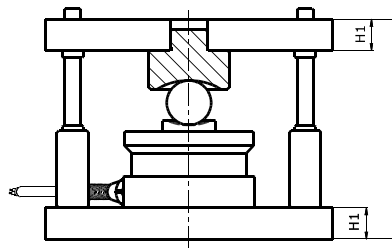
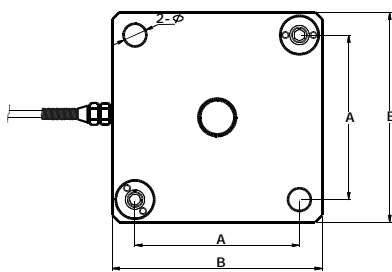
Execution standard:  
GB/T 7551-1997 Certificate  
(eqv OIML R60)  
Combined error: 0.015%

Sealed to IEC 529:  
Protection grade: IP67 or IP68.  
Protection against total immersion  
in water for 30 minutes at a pressure  
corresponding to a 1 m head of water.



## Dimensions

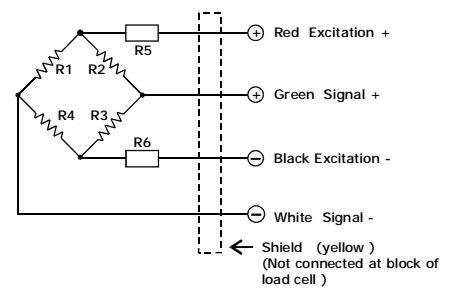
(In mm. 1mm = 0.03937 inches)



CAP./SIZE	A	B	H	H1	φ
1-4.7t	94	120	114.4	18	13
10-22t	94	120	137.8	18	13
33t	105	130	181.1	22	18
47t	124	160	228.7	22	18

## Circuit Diagram

Electrical Termination  
4 Core cable standard lengths:  
<=15t: 5.0 m, 22~47t: 13m  
Diameter: φ6  
Connection:  
Refer to the following drawing:



### Notice:

Do not change the length of cable, or lese, it will effect the sensitivity of load cell.

## Specification

Item\ Parameter	C3	Unit
Rated load ( $E_{max}$ ):	1,2,2,4,7,10,22,33,47	t
Maximal numbers of load cell verification Intervals (Nic):	3000	d
Minimum load cell verification intervals Intervals (Vmin):	0.01	% of rated load
Rated output (Cn):	2.0±0.1%	mV/V
*Combined error:	0.015	±% of rated output
Temperature effect on sensitivity (TKc):	0.0012	±% of rated output/°C
Temperature effect on zero balance (TK0):	0.0008	±% of rated output/°C
Zero balance:	1.0	±% of rated output
Input resistance (Rlc):	775±5 / >= 33t: 1550±10	Ω (Ohms)
Output resistance (Ro):	702±2 / >= 33t: 1402±2	Ω (Ohms)
Insulation resistance:	≥5000	MΩ (Mega-Ohms)
Safe overload:	150	% of rated capability
Ultimate overload:	300	% of rated capability
Operating temperature range:	-20~+70/-20~-+160	°C / °F
Recommend excitation:	8~24	V (DC or AC)
Maximum excitation:	48	V (DC or AC)
Material of elastomer:	Alloy steel / Stainless steel	
Protection class:	IP67/IP68	

The data for deviation of synthesis error,TK0,TKc are typicl values. The sum of these data meets the requirements according to OIML R60

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**benui**  
benui electric

Ningbo Benui Electric Co.,Ltd.  
Add:No.18,YangShaShan Xi 9 Road, ChunXiao,  
Ningbo Economic&Technical Development Zone,China  
ZIP:315800

Tel: +86-574-8680 6868 0574-8680 6565  
Fax: +86-574-8680 6862 0574-8680 6866  
E-mail: sales@benui.com benui@benui.com  
http://www.benui.com www.loadcell.cn