

# BTY-MB Self-restoring rocker-pin load cell

## Description

**Capacities: ( $E_{max}$ )**  
10,20,30,40,50,60t

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

**Accuracy:**  
C3 OIML R60

**Material of elastomer:**  
Alloy steel or stainless steel

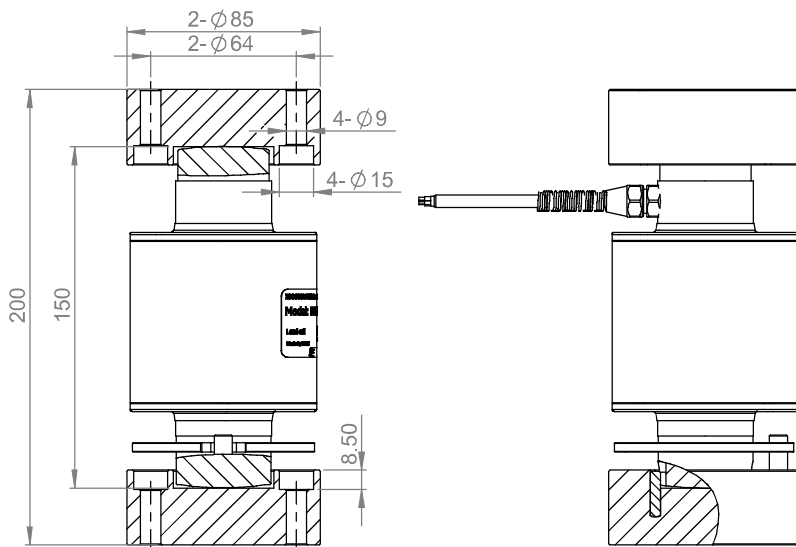
**Execution standard:**  
GB/T 7551-2008 Certificate  
(eqv OIML R60)  
Combined error: 0.015%

**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.



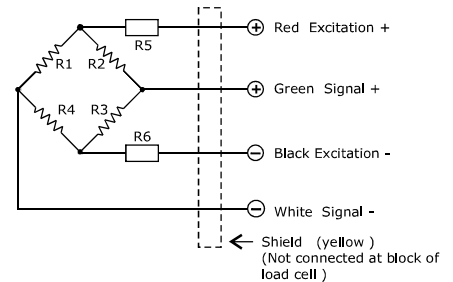
## Dimensions

(In mm. 1mm = 0.03937 inches)



## Circuit Diagram

**Electrical Termination**  
4 Core cable standard lengths:  
<=30t: 12.0 m, >=50t: 18m  
Diameter: φ6  
Connection:  
Refer to the following drawing:



**Notice:**  
Do not change the length of cable, or else,  
it will effect the sensitivity of load cell.

## Specification

Item \ Parameter	C3	Unit
Rated load ( $E_{max}$ ):	10,20,30,40,50,60	t
Maximal numbers of load cell verification Intervals (Nlc):	3000	d
Minimum load cell verification intervals Intervals ( $V_{min}$ ):	0.01	% of rated load
Rated output ( $C_n$ ):	$2.0 \pm 0.1\%$	mV/V
*Combined error:	0.015	$\pm\%$ of rated output
Temperature effect on sensitivity(Tkc):	0.0012	$\pm\%$ of rated output/ $^{\circ}C$
Temperature effect on zero balance(Tk0):	0.0008	$\pm\%$ of rated output/ $^{\circ}C$
Zero balance:	1.0	$\pm\%$ of rated output
Input resistance(Ric):	$775 \pm 5$	$\Omega$ (Ohms)
Output resistance(Ro):	$702 \pm 2$	$\Omega$ (Ohms)
Insulation resistance:	$\geq 5000$	M $\Omega$ (Mega-Ohms)
Safe overload:	150	% of rated capability
Ultimate overload:	300	% of rated capability
Operating temperature range:	-20~+70/-20~+160	$^{\circ}C$ / $^{\circ}F$
Recommend excitation:	8~15	V( DC or AC)
Maximum excitation:	24	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 typical values. The sum of these data meets the requirements according to OIML R60

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