



# MK-TPD1 Double Beam Load Cell

## Description

### Capacities: (E<sub>max</sub>)

1,2,2.5,5klbs;10,20,25,35klbs  
50,75klbs

### Rated output:

3.0mV/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%

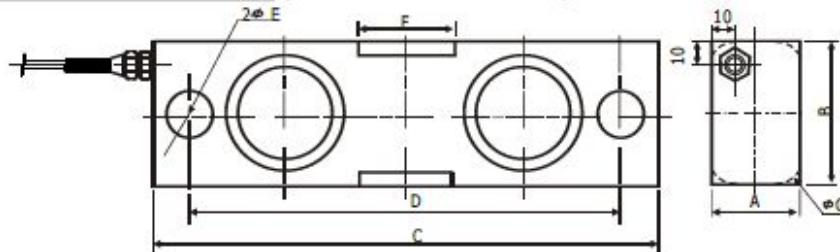
### Sealed to IEC 529:

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)



CAP./SIZE	A	B	C	D	E	F	G
1~5klb	31	31	190.5	158.8	12.7	30.5	31.5
10~35klb	36.6	49.3	222.3	190.5	20.6	42	50.8
50~75klb	62	74.7	324.9	292.1	33.3	82.6	76.2

## Specification

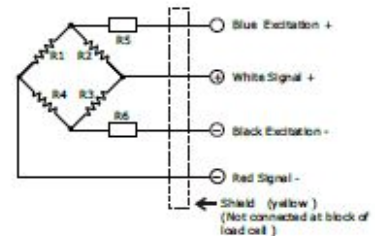
Item \ Parameter	C3	Unit
Rated load (E <sub>max</sub> ):	1,2,2.5,5, 10,20,25,35,50,75	klbs
Maximal numbers of load cell verification Intervals (N <sub>ic</sub> ):	3000	d
Minimum load cell verification Intervals (V <sub>min</sub> ):	0.01	% of rated load
Rated output (C <sub>n</sub> ):	3.0±0.3%	mV/V
*Combined error:	0.005	±% of rated output
Temperature effect on sensitivity(T <sub>kc</sub> ):	0.0012	±% of rated output/°C
Temperature effect on zero balance(T <sub>k0</sub> ):	0.0008	±% of rated output/°C
Zero balance:	1.0	±% of rated output
Input resistance(R <sub>ic</sub> ):	750 ± 10	Ω (Ohms)
Output resistance(R <sub>o</sub> ):	70.2 ± 5	Ω (Ohms)
Insulation resistance:	≥ 5000	MΩ (Mega-Ohms)
Safe overload:	150	% of rated capability
Ultimate overload:	300	% of rated capability
Operating temperature range:	-30~+70	°C / °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	

## Circuit Diagram

### Electrical Termination

4 Core cable standard lengths:  
<=35klbs: 10 m, >=50klbs: 16 m  
Diameter: φ6  
Connection:

Refer to the following drawing:



### Notice:

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

