

# EWGA Single beam load cell

## Description

### Capacities: ( $E_{max}$ )

10,20,50,100,200,250kg

### 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:

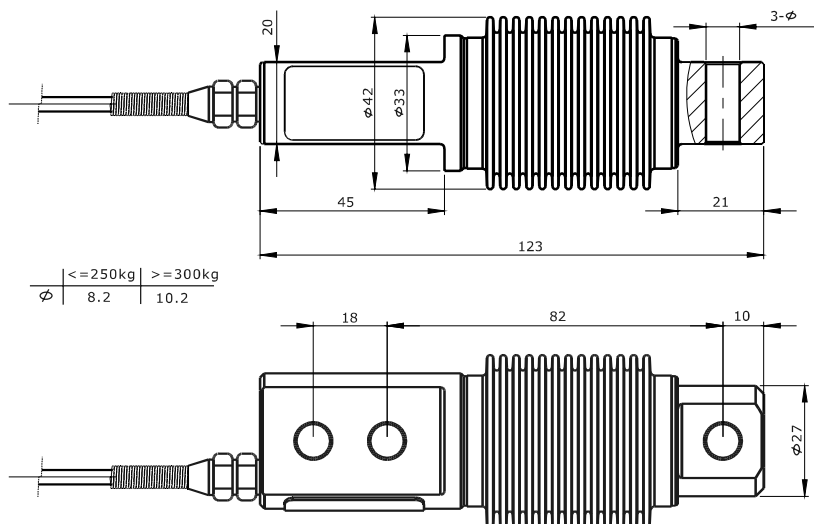
Protection grade: IP67 or IP68.

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

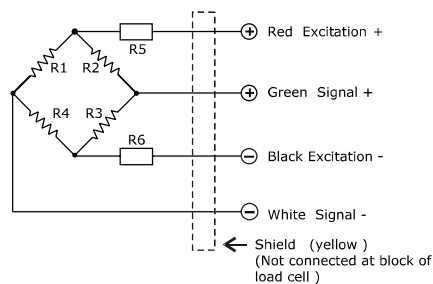
4 Core cable standard lengths:

3m

Diameter:  $\phi 6$

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 ( $E_{max}$ ):                                   | 10,20,50,100,200,250           | kg                                          |
| Maximal numbers of load cell verification Intervals (Nlc):  | 3000                           | d                                           |
| Minimum load cell verification intervals Intervals ( Vmin): | 0.01                           | % of rated load                             |
| Rated output (Cn):                                          | $2.0 \pm 0.1\%$                | mV/V                                        |
| *Combined error:                                            | 0.015                          | $\pm\%$ of rated output                     |
| Temperature effect on sensitivity(Tkc):                     | 0.0012                         | $\pm\%$ of rated output/ $^{\circ}\text{C}$ |
| Temperature effect on zero balance(Tk0):                    | 0.0008                         | $\pm\%$ of rated output/ $^{\circ}\text{C}$ |
| Zero balance:                                               | 1.0                            | $\pm\%$ of rated output                     |
| Input resistance(Rlc):                                      | $385 \pm 5$                    | $\Omega$ (Ohms)                             |
| Output resistance(Ro):                                      | $351 \pm 2$                    | $\Omega$ (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 $\sim$ +70/-20 $\sim$ +160 | $^{\circ}\text{C}$ / $^{\circ}\text{F}$     |
| Recommend excitation:                                       | 8 $\sim$ 15                    | V( DC or AC)                                |
| Maximum excitation:                                         | 18                             | 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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