

QS Double beam load cell

Description

Capacities: (E_{max})
10,20,25,30,40,50t

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

Accuracy:
C3 OIML R60

Material of elastomer:
Alloy steel or stainless steel

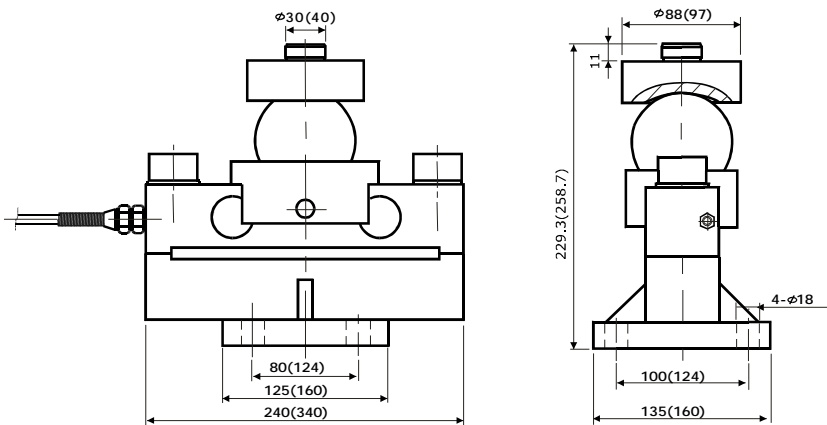
Execution standard:
GB/T 7551-1997 Certificate
(eqv OIML R60)
Combined error: 0.015%

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

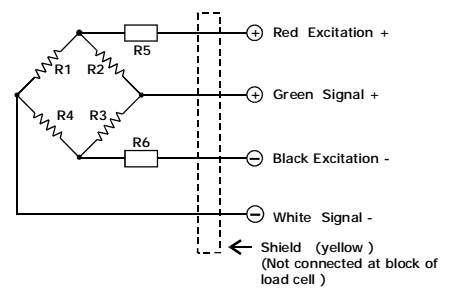
(In mm. 1mm = 0.03937 inches)



Note:
(**) are for QS-50t

Circuit Diagram

Electrical Termination
4 Core cable standard lengths:
<=30t: 12.0 m, >=40t: 16m
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}):	10,20,25,30,40,50	t
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):	775 ± 5	Ω (Ohms)
Output resistance (Ro):	702 ± 2	Ω (Ohms)
Insulation resistance:	≥ 5000	M Ω (Mega-Ohms)
Safe overload:	150	% of rated capability
Ultimate overload:	300	% of rated capability
Operating temperature range:	-20 ~ +70 / -20 ~ +160	$^{\circ}\text{C}$ / $^{\circ}\text{F}$
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 typicl values. The sum of these data meets the requirements according to OIML R60

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