

QSC Double beam load cell

Description

Capacities: (E_{max})
5,10,20,30,60,100,150,200klbs

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

Accuracy:
C3 OIML R60

Material of elastomer:
Alloy steel or stainless steel

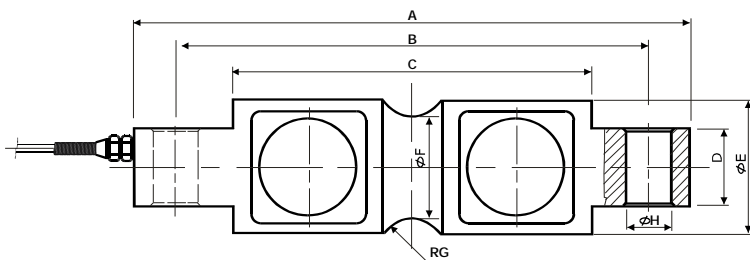
Execution standard:
GB/T 7551-1997 Certificate
(eqv OIML R60)
Combined error: 0.015%

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

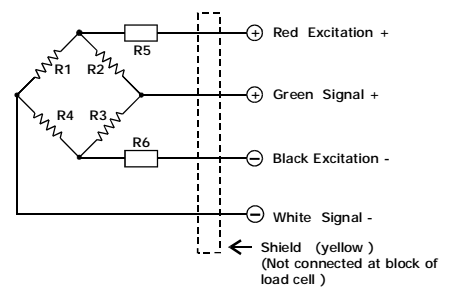
(In mm. 1mm = 0.03937 inches)



CAP./SIZE	A	B	C	D	E	F	G	H
5~10klb	206.3	174.8	133.1	28.5	43.2	37.6	12.7	16.8
20klb	206.3	174.8	133.1	28.5	49.3	37.6	12.7	16.8
30~60klb	260.4	215.9	164.8	60.2	76.2	69.3	25.4	26.9
100klb	285.8	241.3	190.2	63.5	95.3	82.3	25.4	26.9
150klb	285.8	241.3	190.2	71.1	99.1	92.5	38.1	26.9
200klb	409.0	330.2	254.0	116.8	136.7	131.1	50.8	39.6

Circuit Diagram

Electrical Termination
4 Core cable standard lengths:
<=30klbs: 6.0 m, >=50klbs: 12.0m
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}):	5,10,20,30,60,100,150,200	klbs
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 \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 (Rlc):	775 \pm 5	Ω (Ohms)
Output resistance (Ro):	702 \pm 2	Ω (Ohms)
Insulation resistance:	\geq 5000	M Ω (Mega-Ohms)
Safe overload:	150	% of rated capability
Ultimate overload:	300	% of rated capability
Operating temperature range:	-20~+70/-20~+160	$^{\circ}$ 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 typicl values. The sum of these data meets the requirements according to OIML R60

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