

QSF Double beam load cell

Description

Capacities: (E_{max})
10,22,30,45,50,75,100klbs

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

Accuracy:
C3 OIML R60

Material of elastomer:
Alloy steel or stainless steel

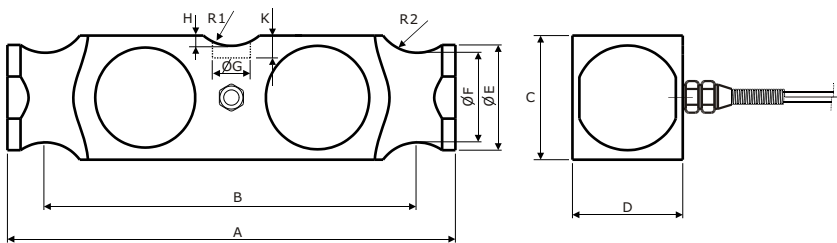
Execution standard:
GB/T 7551-2008 Certificate
(eqv OIML R60)
Combined error: 0.015%

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

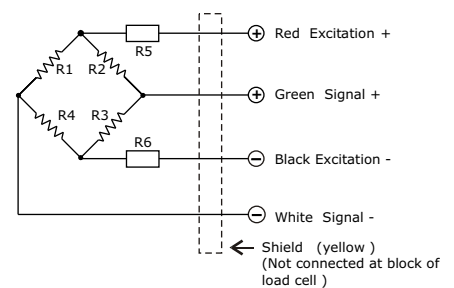
(In mm. 1mm = 0.03937 inches)



CAP./SIZE	A	B	C	D	E	F	G	H	K	R1	R2
10~45 klbS	260	216	72	64	61	52	22	6	19	25.4	25.4
50~100 klbS	292	254	86	76	70	60	30	10	25	38.1	38.1

Circuit Diagram

Electrical Termination
4 Core cable standard lengths:
<=30klbs: 6.0 m, >=45klbs: 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}):	10,22,30,45,50,75,100	klbs
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/ $^{\circ}$ 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 \sim +70/-20 \sim +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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