

# 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

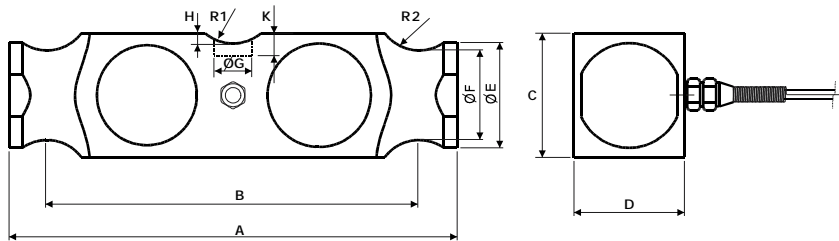
Execution standard:  
GB/T 7551-1997 Certificate  
(eqv OIML R60)  
Combined error: 0.015%

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

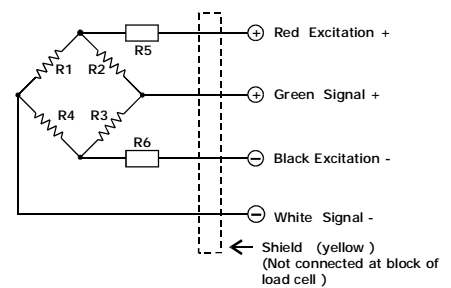
(In mm. 1mm = 0.03937 inches)



CAP./SIZE	A	B	C	D	E	F	G	H	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 (TKo):	0.0008	$\pm$ % of rated output/ $^{\circ}$ C
Zero balance:	1.0	$\pm$ % of rated output
Input resistance(Rlc):	775 $\pm$ 5	$\Omega$ (Ohms)
Output resistance(Ro):	702 $\pm$ 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~+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,TKO,TKc are typicl values. The sum of these data meets the requirements according to OIML R60

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