

Damped Load Cells for Rotary Filling Machines

SPECIFICATIONS		
PARAMETER	VALUE	UNIT
Rated capacity—R.C.	3	kg
Rated capacity—R.C.	17, 23	lb
TH Accuracy class	C1	
Maximum no. of intervals (n)	1000	
Rated output—R.O.	2	mV/V
Rated output tolerance	0.3	±mV/V
Zero balance—3 kg: (3 kg std.), 17 lb, 23 lb:	-0.6000±0.0500 ±0.2000	mV/V
Total static error at room temperature per OIML	0.03	±% of R.O.
Dynamic error: speed range of 0 to 15 rpm, rotational radius of 1m, load placed on platform located 14 cm above top surface of load-cell & connected by 3/4" or 20 mm dia. steel shaft	0.04	±% of the static reading at same load
Creep and zero return (30 min.)	0.05	±% of load
Temperature effect on zero	0.010	±% of R.O./°C
Temperature effect on output	0.003	±% of load/°C
Temperature range, compensated	+5 to +40	°C
Temperature range, safe	-30 to +70	°C
Maximum safe static overload, positive	160 ⁽²⁾	% of R.C.
Maximum safe static overload, negative	-120	% of R.C.
Ultimate static overload (central loading)	300	% of R.C.
Excitation, recommended	10	VDC or VAC RMS
Excitation, maximum	15	VDC or VAC RMS
Input impedance	415±15	Ω
Output impedance	350±3	Ω
Insulation resistance	>2000	MΩ
Cable type	6-wire, 26 AWG, shielded, PVC jacket	
Cable length	6	m
Construction	Aluminum sensor enclosed in stainless steel box	
Damping	Internal silicone fluid damping ⁽¹⁾	

⁽¹⁾ Silicone fluid is shipped separately from load cell, dosed in syringe. Silicone fluid is filled in cylinder before installation of load cell.

⁽²⁾ Factory adjusted to 170% of R.C.

All specifications subject to change without notice.

Wiring Schematic Diagram

