



**DOUBLE E**  
Engineering Excellence

ee-co.com

## Load Cells

Double E load cells are designed using a full wheatstone bridge strain gage mounted to a beam supporting the load cell bearing cup. Force from web tension is transmitted through an idler roller mounted to the load cells. A low voltage (*mV level*) signal is created proportional to the force which then needs to be amplified and used in a closed loop tension controller or tension readout device.



### Features:

- Available in live shaft (LS model) or dead shaft (DS model) configurations
- Flange mount load cells with foot mounting brackets available
- Full wheatstone bridge circuit
- High accuracy 0.5% of full scale
- Simple installation
- Low-profile compact design
- 300% ultimate overload protection
- Shielded 10m cables with industry standard M12 connectors included

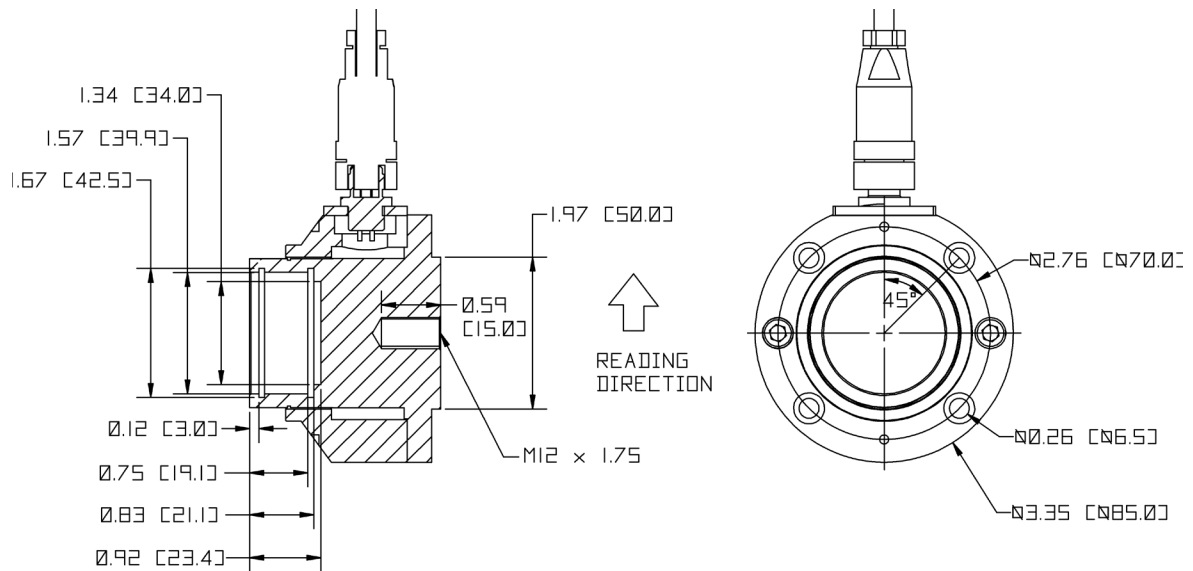


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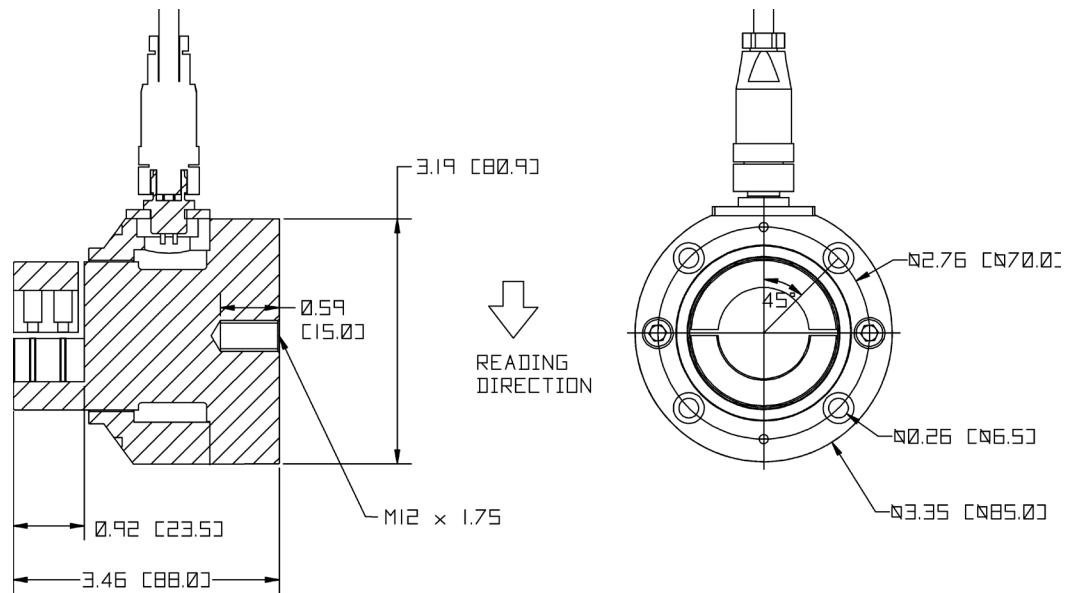
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## Live Shaft



## Dead Shaft



## Technical Specifications

Accuracy class	0.5% F.S.	
Capacity options	33, 55, 110, 220 lbs	1 5, 25, 50, 100 Kg
Rated Output (R.O.)	2.0 mV/V	
Zero balance	1 % R.O.	
Temperature effect on zero	<0.014% R.O./9°F	< 0.014% R.O./5°C
Temperature effect on output	<0.010% R.O./9°F	< 0.010% R.O./5°C
Compensated temperature range	14 to 104°F	-10 /+40 °C
Safe temperature range	-22 to 158°F	-30 /+70 °C
Maximum safe central overload	150 % R.O.	
Ultimate central overload	300 % R.O.	
Excitation	1V to 10V range (5V recommended)	
Input impedance	395±30 Ω	
Output impedance	350±3 Ω	
Insulation resistance	>5000 M Ω	
Anodized aluminum alloy construction		
Environmental protection	IP55	
Weight	2lbs	0.9 kg