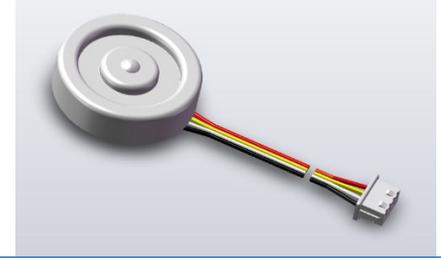


GBLC-FX19MV Series Compression Load Cell mV Output, High Sensitivity Voltage Supply



DESCRIPTION

Advanced Sensors Glass Bonded Load Cell Technology (GBLC) Series incorporates a *glass bonded* silicon gage to a Stainless Steel flexure ensuring a price performance value that meet the demanding requirements for OEM applications. The GBLC-FX19MV Series requires a constant voltage supply and is offered with a wide range of full scale range. The glass bonded sense elements eliminate any stress relieving materials that will deteriorate over time in traditional load cell design. The glass bonded sense elements provide little deflection while creating a nearly infinite operating cycle life. With an operating temperature range of -0 to 50°C using a constant voltage provide an ideal choice for OEM customers.

APPLICATIONS

- Industrial Assembly Forces
- Monitor/ Control Instrumentation for Manufacturing Process
- Medical Rehabilitation Equipment
- Payload Monitoring
- Medical Devices for Prosthetics
- Appliance Monitoring
- Hand Tool Forces

FEATURES

- Low Deflection
- Nearly Unlimited Cycle Life
- Low Noise Output
- Small Coin Footprint
- High Sensitivity Output
- Wide Load Ranges
- High Overload Capabilities
- Fast Response

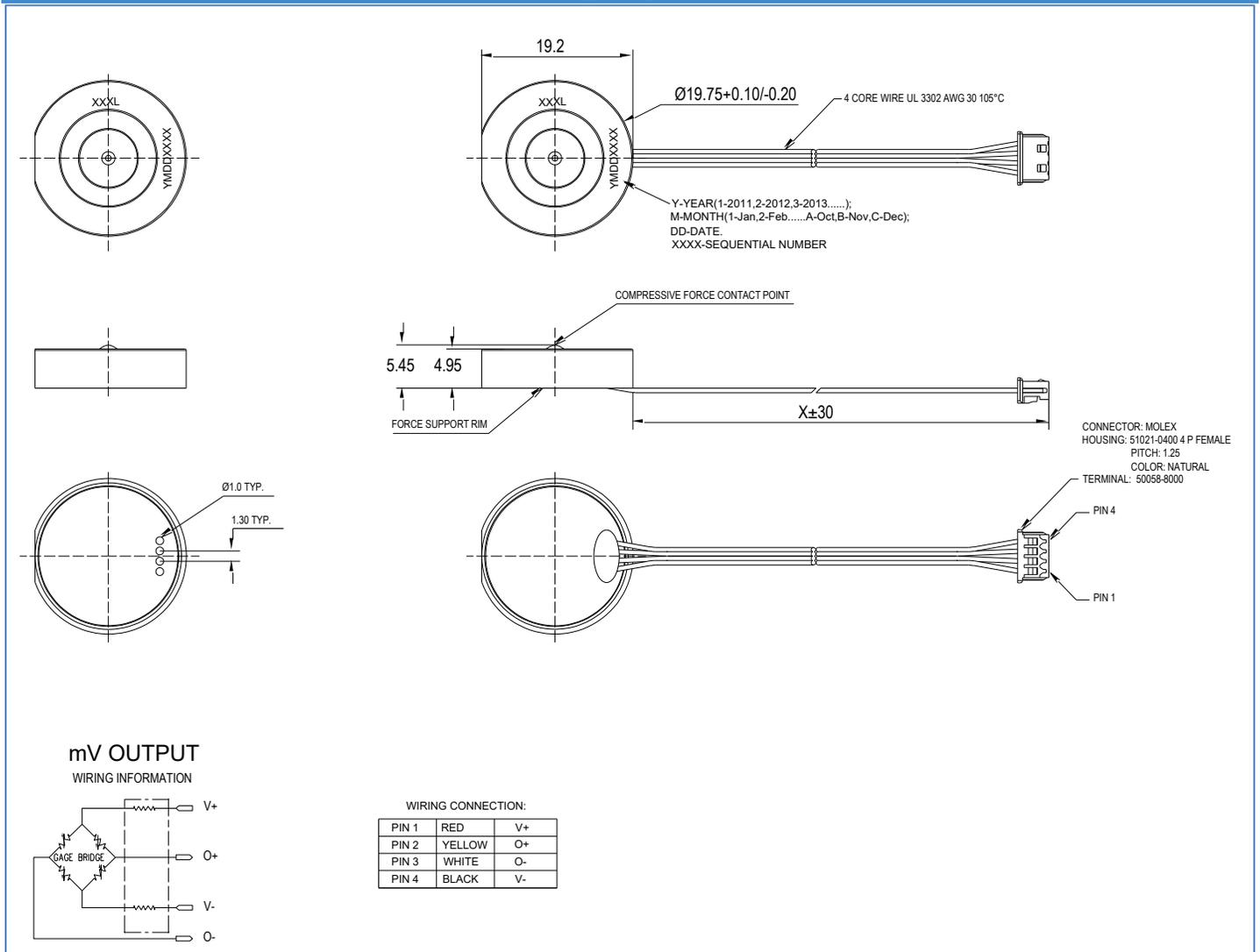
SPECIFICATIONS	Symbol	Min	Typical	Max	Unit	Note
Performance Characteristic						
Recommended Voltage			5		V	
Bridge Resistance, Input & Output		2400	3300	4200	Ω	
Zero Pressure Offset		-15		+15	mV/V	
Pressure Non Linearity		-1.0	± 0.2	+1.0	%FSS	2
Hysteresis & Repeatability		-0.80	± 0.3	+0.80	%FSS	
Full Scale Span	FSS	16	20	24	mV/V	3
Deflection at Rated Load			0.05		mm	3
Thermal Sensitivity Shift		-0.05		+0.05	%FSS/ $^{\circ}$ C	
Thermal Zero Shift		-0.05		+0.05	%FSS/ $^{\circ}$ C	
Response Time			100		μ S	
Insulation Resistance		50			M Ω	
Endurance		1			M Cycles	
Operating Temperatures			-0 to 50		$^{\circ}$ C	

SPECIFICATIONS	Symbol	Min	Typical	Max	Unit	Note
Absolute Maximum Conditions						4
Supply Voltage				15	V	
Storage Temperature		-40		85	°C	
Overload Load		2X			Range	
Wetted Materials		304 & 17-4PH Stainless steel				

Reference Conditions: Vsupply: 5Vdc, Ta=25°C.

1. All specifications at reference conditions unless otherwise noted. Output is ratio metric to supply voltage.
2. ½ Terminal Base Non Linearity (Measured at 0, 50% and 100% FS).
3. At Full Scale Force.
4. Exceeding Absolute Maximum Specification may damage the device. Extended exposure beyond the operating conditions may affect device reliability.

MECHANICAL DIMENSIONS in [mm]



PART NUMBERING FOR ORDERS

Series	Flexure Style	Pressure Range	Pressure Units	Cable Length (Range Availability) [Package Availability]	Pin Orientation
GBLC-FX19MV	BP = Button Platform	0010 0025 0050 0100 0200	L=lbsF	XXX1 = Custom Length (mm) 0001 = Fixed 609.5mm	F= Flying Leads

Part Number Example: GBLC-FX19MV BP0025L 0001**GBLC-FX19MV Series with Button Platform, 0 to 25Lbf
Full Scale Range with Fixed 24inch cable****WARRANTY**

Load sensors have a limited one-year warranty to the original purchaser. AVSensors will repair or replace, at its option, without charge those items it finds defective. This is the buyer's sole remedy and is in lieu of all other warranties, expressed or implied, including those of merchantability and fitness for a particular purpose. In no event shall AVSensors be liable for consequential, special, or indirect damages. This warranty does not apply to units that have been modified, misused, neglected or installed where the application exceeds published ratings. Specifications may change without notice. The information supplied is believed to be accurate and reliable as of this printing, however, we assume no responsibility for its use.