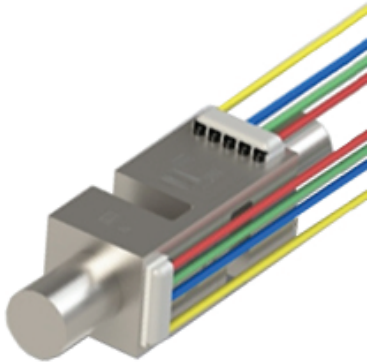


M200 XY Load Cell (Multi-Axis)



The **M200 Joystick Sensor** uses sputtered thin film strain gauge technology to create a compact, rugged sensor with exceptional long-term stability. It is ideal for applications requiring force sensing in two orthogonal axes. The XY Joystick provides independent voltage outputs, proportional to the force applied, in two axes. Long-term stability, low temperature coefficients and low hysteresis make the XY Joystick sensor an excellent choice for applications where reliable and stable long-term performance is required. Custom characteristics can be provided for high-volume OEM users, our experienced engineers will work with you to develop and deliver a custom prototype to suit your application in a little as three weeks.

Product Specifications:

Ranges:	14Ncm, 28Ncm (from end of beam)
Maximum Load (Safe):	Up to 200% FSO
Bridge Configuration:	Dual 5-wire Full Bridge
Bridge Resistance:	5000 Ω Nominal
Excitation Voltage (Recommended):	10 V dc/ac (20 V Max)
Insulation Resistance:	1 G Ω @ 50 Vdc
Full Scale Output:	1.4 mV/V Nominal
Deflection at Rated Range:	14 Ncm: 0.162 mm Nominal 28 Ncm: 0.148 mm Nominal
Zero Balance:	± 0.30 mV/V
Repeatability:	$\pm 0.05\%$ FSO
Linearity:	$\pm 0.10\%$ FSO
Hysteresis:	$\pm 0.07\%$ FSO
Temp. Effect on Zero:	± 0.60 μ V/V/ $^{\circ}$ C (Tighter Tolerances Available)
Temp Effect on Span:	$0.03 \pm 0.01\%$ Reading/ $^{\circ}$ C (Tighter Tolerances Available)
Operating Temp:	-40 to 140 $^{\circ}$ C
Body Material:	14-5PH Stainless Steel
Cable:	Customer Specific

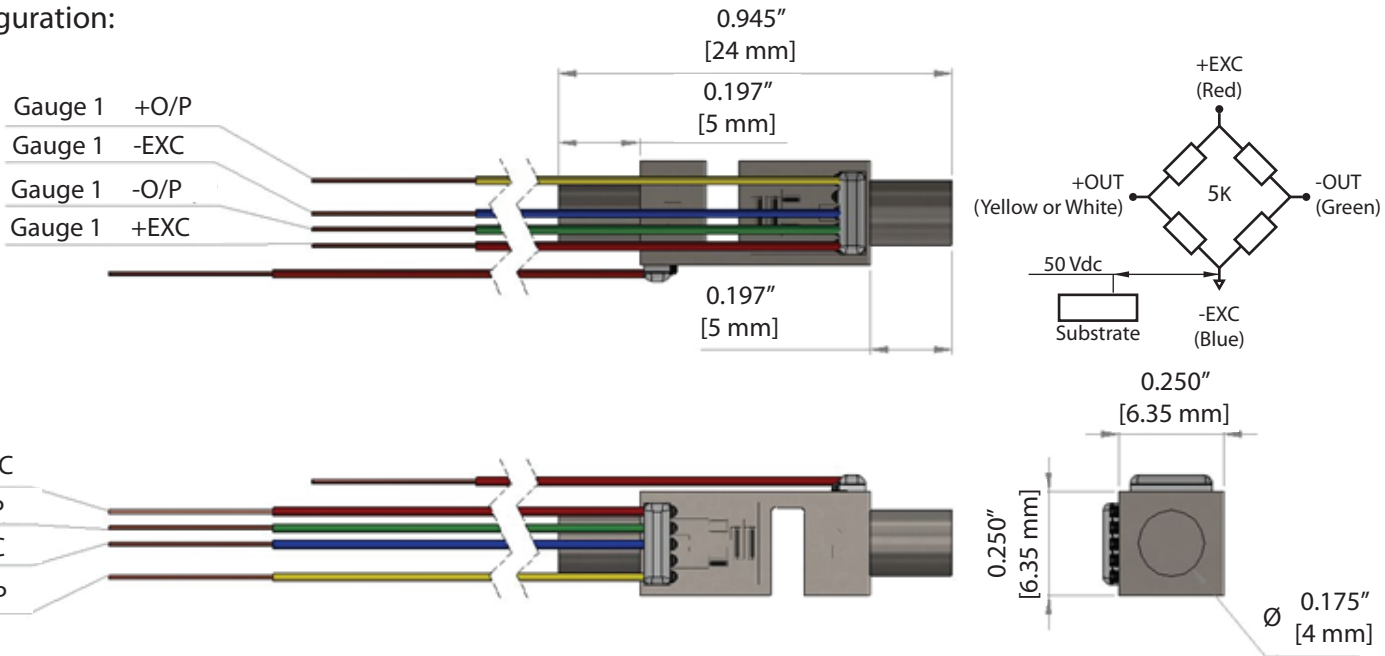
Features:

- Compact Design
- Long Term Zero Stability
- Ideally Suited for OEM Applications
- Low Power Consumption
- High Strength Stainless Steel

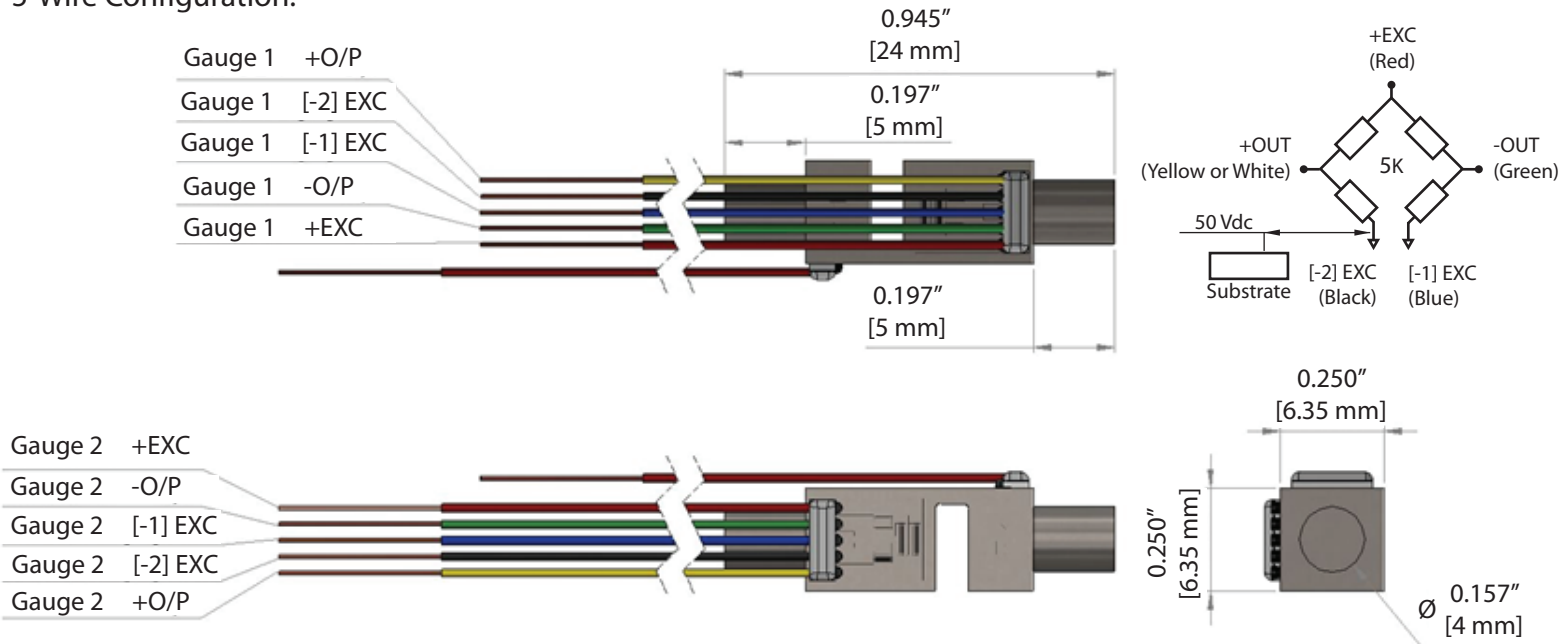
Applications:

- Automotive
- Robotics
- Aerospace
- Marine
- Agriculture

4-Wire Configuration:



5-Wire Configuration:



Part Name	Description
M200-014	0.90 lb [14 Ncm]
M200-028	1.80 lb [28 Ncm]