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FEATURES

- Easy Installation with Threaded M5 Male Base
- Integrated Spherical Load Button
- High IP rating on request
- Other thread and design on request

APPLICATIONS

- Process control equipment
- Press-fit machinery
- Robotics and effectors
- Laboratory
- Fibre Optical component assembly

XFC205R

Miniature Load Cell in Compession

SPECIFICATIONS

- Ranges from 0-2 to 0-200N
 [0-0.45 to 0-45 lbf]
- Important Overload Capacity
- Linearity < 0.5% FS

The miniature size and lightweight of the **XFC205R** facilitates testing where these conditions are necessary. Unlike sensors with flat force application surfaces, the **XFC205R** incorporates a spherical load button resulting in more precise measurements.

Its high stiffness, for the size and measurement ranges, allows measurements in dynamic applications. A strain relief spring strengthens the cable output. The sensing element is fitted with a fully temperature compensated Wheatstone bridge equipped with high stability micro-machined silicon strain gages. With a threaded M5 male base, the **XFC205R** is easily installed in industrial or OEM applications.

To meet your need we also offer extensive turnkey systems. The matched components (sensor, power, amplifier and digital display) are formatted, calibrated and ready for immediate use.

On request, Instruction documents can be provided to ease the selection and use of our sensors and provide helpful tips.

CHARACTERISTICS (typical values at temperature 23°C)

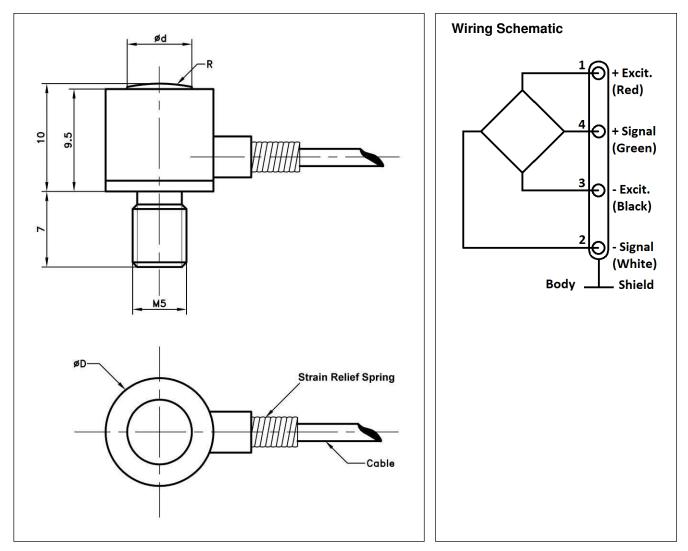
Ranges (FS) (N)	2	5	10	20	50	100	200
Ranges (lbf)	0.4496	1.124	2.248	4.496	11.24	22.48	44.96
Material		Aluminium Stainle			ss Steel		
Stiffness (N/m)	3.0E+05	7.8E+05	2.3E+06	4.1E+06	9.2E+06	2.0E+07	3.5E+07
Stiffness (lbf/ft)	2.1E+04	5.3E+04	1.6E+05	2.8E+05	6.3E+05	1.4E+06	2.4E+06
Sensitivity (FSO)		150 mV			120 mV		
Specifications		-					
Power supply		10Vdc					
Overrange Without Damage		2x FS					
Overrange Without Destruction		3x FS					
Offset		<±10 mV					
Input Impedance		1500 ohms					
Output Impédance		500 ohms					
Linearity		< ±0.5% FS					
Hysteresis		< ±0.5% FS					
Operating Temperature Range (OTR)		-40°C to +120°C (-40 to 250°F)					
Compensated Temperature Range (CTR)		0°C to +60°C (32 to 140°F)					
Thermal Zero Shift in CTR		< 2% FS/50°C					
Thermal Sensitivity Shift in CTR		< 2%/50°C					
Insulation		> 100 Mohms					
Protection Index		IP50					

Notes

1. Signal goes negative in compression with standard wiring configuration

2. Electrical Termination: Cable: Shielded cable with 4 wires (AWG36), standard length 2 m [6.6 ft] with strain relief spring

Material: Body in stainless steel or aluminum alloy
 CE conformance according to EN 61010-1, EN 50081-1, EN 50082-1



DIMENSIONS & WIRING SCHEMATIC (IN METRIC AND IMPERIAL)

Dimensions in mm [inch]

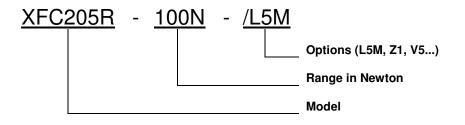
F.S. Ranges in N	2 - 5	10 - 20 - 50	100 - 200		
Diameter D	10 [0.39]				
Diameter d	3 [0.12]	5 [0.20]			
R	15 [0.59]				

OPTIONS

ZO	CTR -40°C to +20°C (-40°F to 68°F)
Z04	CTR -40°C to +90°C (-40°F to 194°F)
Z1	CTR -20°C to +40°C (-4°F to 104°F)
Z3	CTR +20°C to +80°C (68°F to 176°F)
Z35	CTR +20°C to +120°C (68°F to 248°F)
НА	Accuracy (CNL&H) $\leq \pm 0.5\%$ F.S.
V00	Non-standard power supply calibration, replace "00" with value in Volt
LOOM	Special cable length, replace "00" with total length in meters

* Order Flat Force application surface with reference XFC205.

ORDERING INFO



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