

Force Sensors

10188 & 10190

THREADED ROD FORCE SENSORS

This series of threaded rod load cells is designed for general tension measurement applications. Both English and Metric versions are available (models 10188 & 10190, respectively). All models are machined from high strength steel alloy. A durable, molded elastomer cover offers mechanical protection. It also provides strain relief for the integral cable that exits out the side of the load cell and terminates in 3" pigtails.



SPECIFICATIONS

Capacities.....
 Model 10188..... 2K to 50K lbs. (See chart)
 Model 10190..... 10K to 200K N (See chart)
 Overload capacity.....150% of F.S.
 Output at F.S.....2.0 mV/V nominal
 Non-linearity.....0.10% of F.S.
 Hysteresis.....0.10% of F.S.
 Zero balance.....1% of F.S.
 Compensated temperature.....70 to 170°F
 Useable temperature.....-65 to +250°F
 Temperature effect on zero.....0.002% of F.S./°F
 Temperature effect on span.....0.002% of Rdg./°F
 Bridge resistance.....350 Ohms
 Excitation voltage, maximum.....20 Vdc
 MaterialAlloy steel

DIMENSIONS STANDARD (INCHES)

MODEL	CAPACITY LBS	A	B
10188-023	2000	2.50	1/2-20
10188-053	5000		
10188-014	10000	4.50	1-14'
10188-024	20000		
10188-054	50000	6.75	1 1/2-12

METRIC (mm)

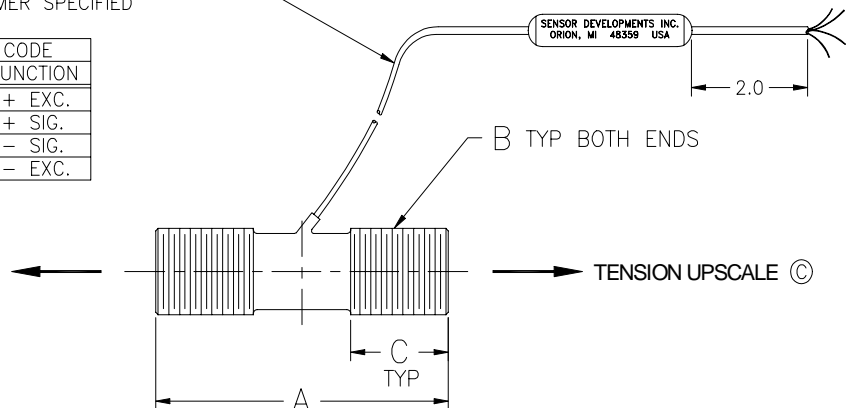
MODEL	CAPACITY KN	A mm	B
10190-014	10	65	M12 X 1.75
10190-024	20		
10190-054	50	115	M24 X 3
10190-015	100		
10190-025	200	170	M36 X 4

DWG 10188

DWG 10190

4 CONDUCTOR SHIELDED CABLE WITH PIGTAIL TERMINATION
 2 FT STANDARD CABLE LENGTH UNLESS CUSTOMER SPECIFIED

WIRING CODE	
COLOR	FUNCTION
RED	+ EXC.
YELLOW	+ SIG.
WHITE	- SIG.
BLACK	- EXC.



Note: Add "A" to the part number for Auto-ID (ie: 10188-023A)



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