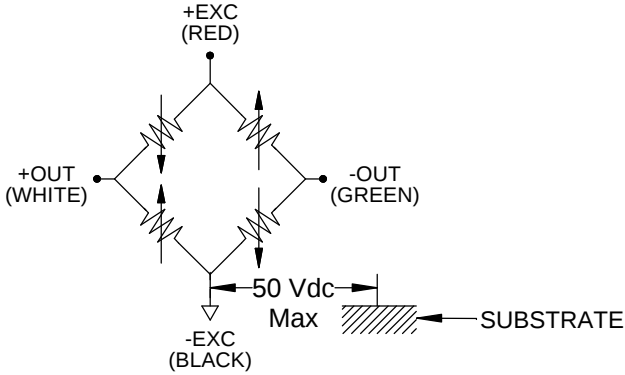
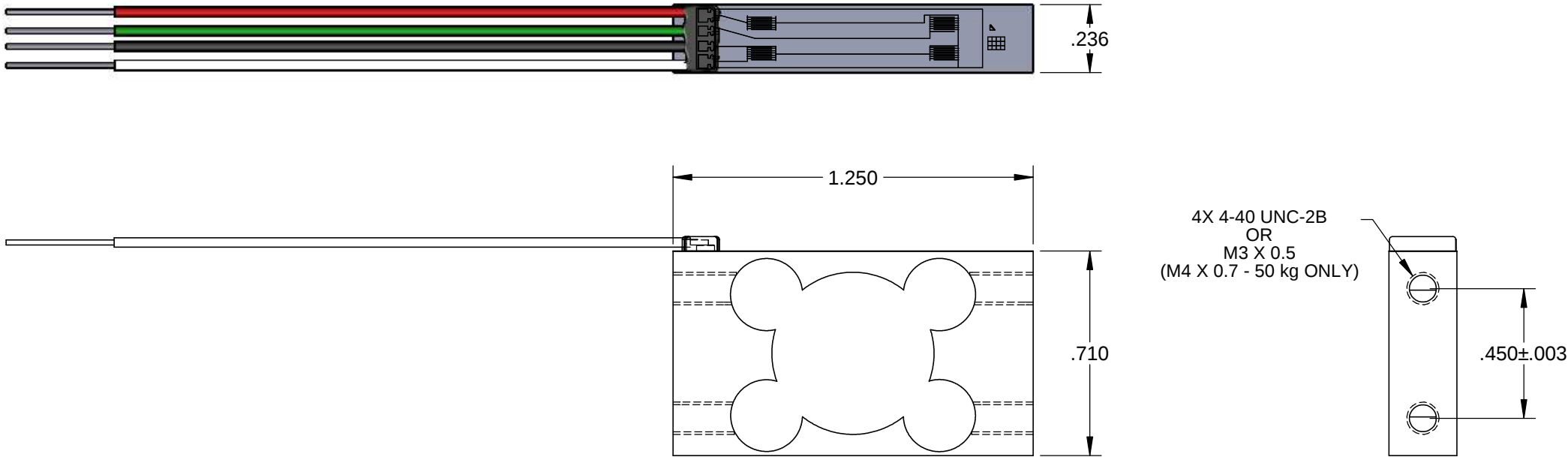




ELECTRICAL SCHEMATIC

SENSOR ASSY SHOWN WITH 28 AWG 4 WIRE OPTION.

PART NUMBER EXAMPLE: **SMD2387-M2-030**

BASE NUMBER RANGE

0 = STANDARD THREAD WIRING OPTIONS
M = METRIC THREAD

EXAMPLE PN IS A STAINLESS STEEL S251 SENSOR WITH METRIC THREADS, SHIELDED CABLE, AND A 3 kg RANGE.

PART NUMBER TABLE			
P/N	RANGE	MATERIAL	DEFLECTION AT FULL SCALE LOAD
SMD2387-XX-002	.2 kg	ALUMINUM	.008
SMD2387-XX-006	.6 kg	STAINLESS STEEL	.009
SMD2387-XX-010	1 kg	STAINLESS STEEL	.007
SMD2387-XX-020	2 kg	STAINLESS STEEL	.007
SMD2387-XX-030	3 kg	STAINLESS STEEL	.005
SMD2387-XX-050	5 kg	STAINLESS STEEL	.006
SMD2387-XX-100	10 kg	STAINLESS STEEL	.005
SMD2387-XX-300	30 kg	STAINLESS STEEL	.004
SMD2387-XX-500	50 kg	STAINLESS STEEL	.004

WIRING OPTIONS	
1	4 WIRE 28 AWG PVC (11.5 IN LG)
2	CABLE, Ø.130 OD, SHIELDED (35 IN LG)
3	COILED CABLE, BRIM 170/4-1
4	TEFLON WIRES / PTFE 32 AWG
5	CUSTOM CABLE / WIRE OPTION

SPECIFICATIONS

CAPACITIES (kg-FORCE)	0.2, 0.6, 1, 2, 3, 5, 10 (30 & 50 OUTLINE VARIES)
OUTPUT (mV/V NOMINAL)	2
EXCITATION (V AC OR DC)	5-20
OVERLOAD LIMIT (% OF RANGE)	150 (@ CENTER LOADING POINT)
ULTIMATE OVERLOAD (% OF RANGE)	400 (@ CENTER LOADING POINT WITHOUT STOP)
BRIDGE CONFIGURATION	FULL BRIDGE, FOUR WIRE CLOSED
BRIDGE RESISTANCE (Ω)	3,000 ±2%
INSULATION RESISTANCE @ 50VDC (MΩ)	1,000
NONLINEARITY (% OF SPAN)	0.04
REPEATABILITY (% OF SPAN)	0.01
HYSTERESIS (% OF SPAN)	0.02
CREEP (% OF SPAN)	0.05 (ZERO RETURN AFTER 30 MINS)
TEMP EFFECT ON ZERO BALANCE:	
STANDARD (% OF SPAN)	<0.03/°C (<0.017/°F)
OPTIONAL (% OF SPAN)	<0.004/°C (<0.0022°F)
TEMP EFFECT ON SPAN:	
STANDARD (% OF READING)	<0.025/°C (<0.014/°F)
OPTIONAL (% OF READING)	<0.002/°C (<0.0011/°F)

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STRAIN MEASUREMENT DEVICES

UNLESS OTHERWISE SPECIFIED:
BREAK SHARP EDGES .003-.015
SURFACES TO BE SQUARE &/OR PARALLEL W/IN .005
X/X = 1/64" .XXX = ±.005"
.X = ±.030" .XXX = ±.001"
.XX = ±.010 ANGLES = ±2° SURFACE FINISH 32/√
BREAK SHARP EDGES .08-.4
SURFACES TO BE SQUARE &/OR PARALLEL W/IN .127
.Xmm = ± 0.5mm
X.XXmm = ± 0.3mm ANGLES = ±2° 0.8/√
X.XXXmm = ± 0.15mm SURFACE FINISH 32/√

USA

55 Barnes Park North
Wallingford, CT 06492

Tel: (203) 294-5800
Fax: (203) 265-0544
askus@smdsensors.com

Europe

Bury Road, Chedburgh,
Bury St Edmunds IP29 4UQ
England

Tel: +44 (0) 1284 852 000
Fax: +44 (0) 1284 852 371
sales@smdsensors.co.uk

www.smdsensors.com

TITLE: **S251 SENSOR**

DWG No. **SMD2387** DIM: INCHES REV 10