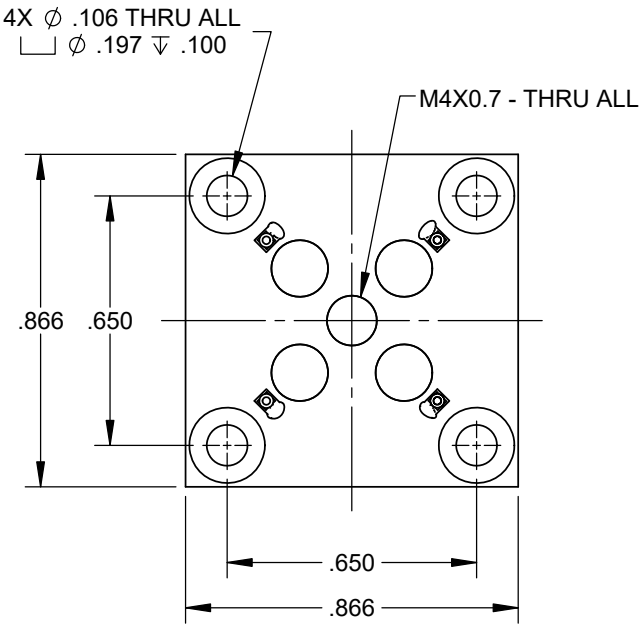
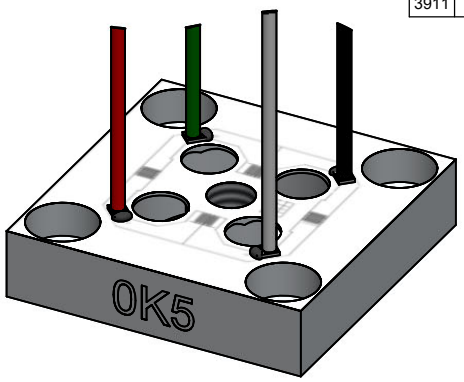
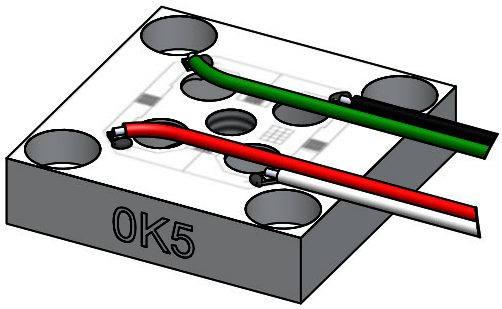
CONFIDENTIAL: PROPERTY OF STRAIN MEASUREMENT DEVICES, INC.

REVISIONS			
MOD No.	REV.	DRAWN BY:	DATE
2298	1	SML	4/21/17
3211	2	SML	7/20/17
3911	3	SML	4/30/21

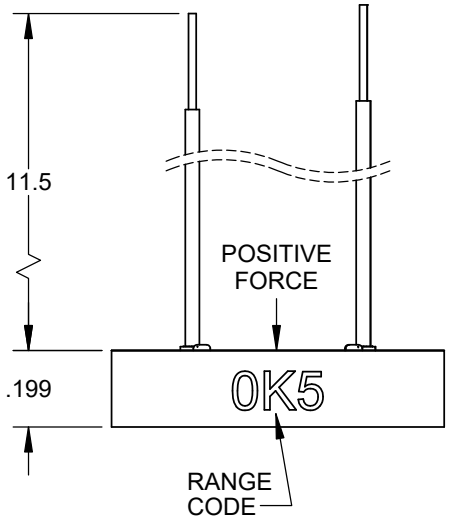




VERTICALLY WIRED OPTION
"Y" SUFFIX



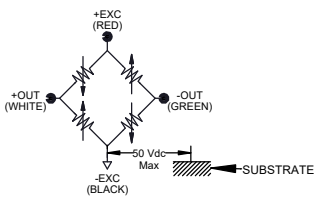
HORIZONTALLY WIRED OPTION
"H" SUFFIX



ITEM No.	CAPACITY	DEFLECTION
SMD4654-0K5-X	0.5	.016
SMD4654-001-X	1.0	.015
SMD4654-2K5-X	2.5	.021
SMD4654-005-X	5.0	.017
SMD4654-010-X	10.0	.014

PART NUMBER EXAMPLE:
SMD4654-2K5-H IS A 2.5KG SENSOR WITH HORIZONTAL WIRING

SPECIFICATIONS		
CAPACITIES (kg):		0.5, 1.0, 2.5, 5.0, 10.0
MAXIMUM LOAD (SAFE):		UP TO 200% FSO
BRIDGE CONFIGURATION:		4 WIRE FULL BRIDGE
BRIDGE RESISTANCE:		10,000Ω
EXCITATION VOLTAGE (RECOMENDED):		10V Dc/Ac (20Vdc MAX)
INSULATION RESISTANCE:		1 GΩ @50 Vdc
FULL SCALE OUTPUT (FSO):		1.250 mV/V NOMINAL
ZERO BALANCE:		±0.2 mV/V
REPEATABILITY:		±0.050% FSO
LINEARITY:		±0.060% FSO
HYSTERESIS:		±0.080% FSO
TEMPERATURE EFFECT ON ZERO:		±0.6μV/V/°C
TEMPERATURE EFFECT ON SPAN:		0.035 ±0.010% READING/°C
OPERATING TEMPERATURE:		-40 / +140°C
BODY MATERIAL:	0.5kg, 1.0kg	AL 2024-T851
	2.5kg, 5.0kg, 10.0kg	SS 17-4PH (H900)
WIRE SIZE (GAGE) & TYPE:		28 AWG PVC, 105°C 600V



ELECTRICAL SCHEMATIC

PRODUCT SPECIFICATION

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

STRAIN MEASUREMENT DEVICES
55 Barnes Park Rd. North
Wallingford, CT 06492
Telephone: (203) 294-5800
www.smdsensors.com

TITLE: **S415 FORCE SENSOR**

DATE:	SCALE:	DIM:	DRAWN:	CHECKED:	NEXT ASSY:	REV
2/14/17	1:1	INCHES	SML	JEO	-	3

DWG No. **SMD4654** USED ON: - SHT 1 OF 1