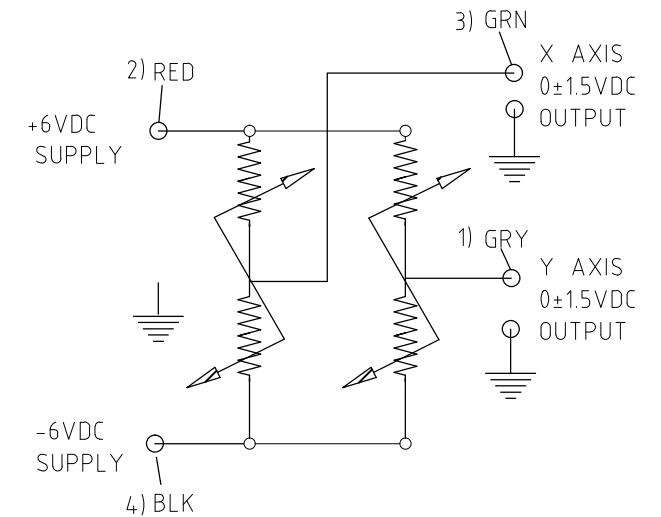
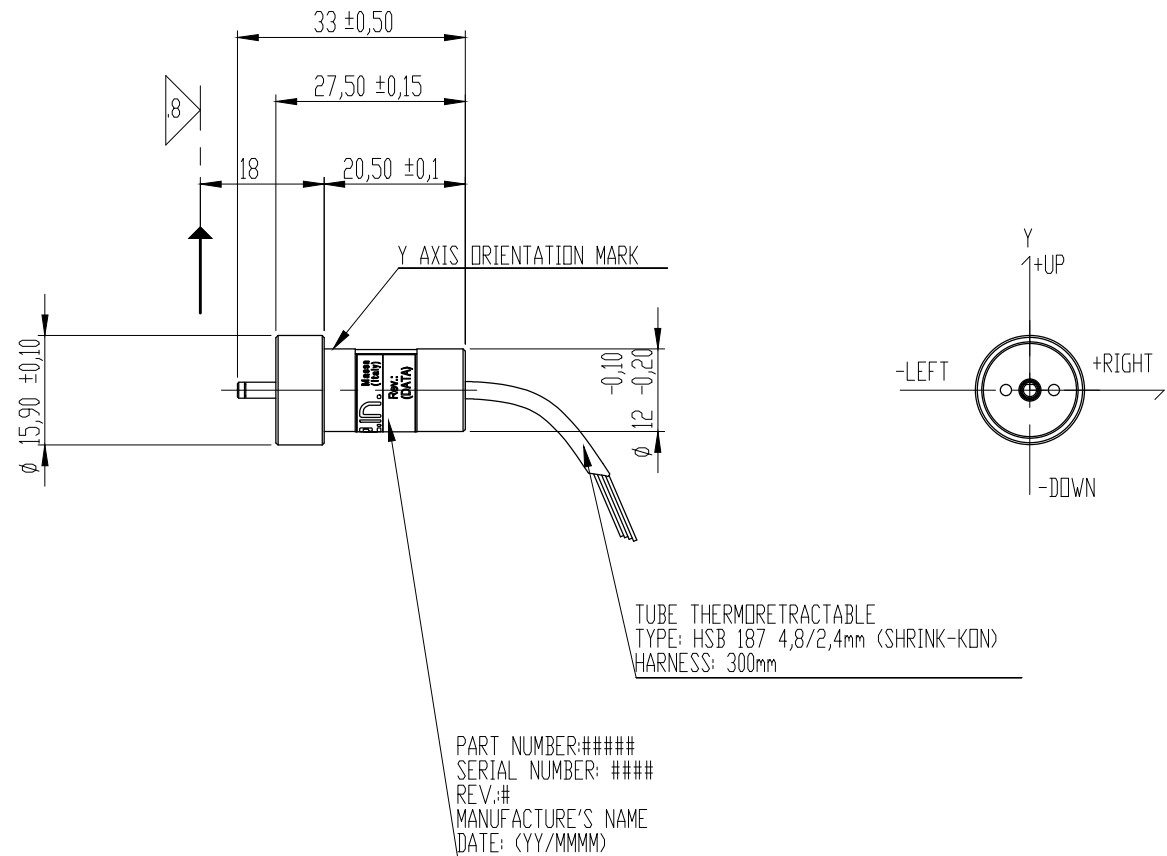


**NOTES** (further info on Doc. SO.GE.IN.J01/A)

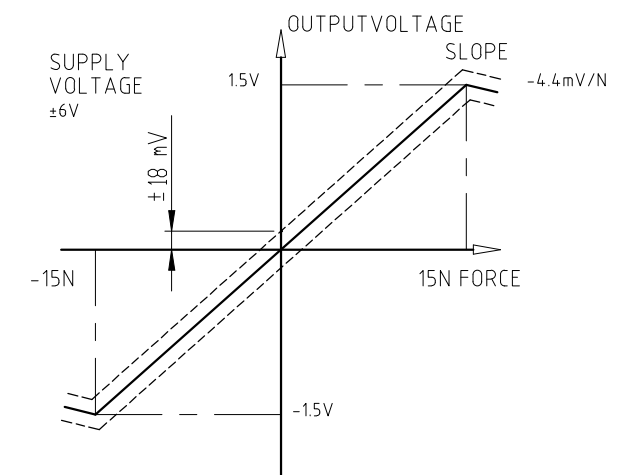
1. ABSOLUTE MAX EXCITATION IS 6 VDC OR AC RMS ACROSS EACH ELEMENT (0.1W/EL).
2. RESISTANCE OF EACH ELEMENT: 410 ±10% OHM.
3. SENSITIVITY: 0.10 V (±20%) PER NEWTON FORCE FOR TEST CIRCUIT SHOWN (±6V).
4. SENSITIVITY TEMPERATURE COEFFICIENT: ±0.2% PER °C MAX.
5. NULL OFFSET: ±0.18 V MAX FOR TEST CIRCUIT SHOWN (±6V).
6. NULL TEMPERATURE COEFFICIENT: ±0.04% OF FULL SCALE OUTPUT PER °C MAX.
7. NULL HYSTERESIS: ±0.007 V MAX AFTER 5 SECONDS FOLLOWING RELEASE OF 16.3 N APPLIED FORCE, FOR TEST CIRCUIT SHOWN (±6V).
8. APPLIED FORCE: 0 TO 15 N LIMITED BY A MECHANICAL STOP. ABSOLUTE MAX IS 120 N.
9. OUTPUT: ±1.65V (±150mV).
10. RESOLUTION: INFINITE, NO DEAD ZONE.
11. CASE MATERIAL: BLACK ANODIZED ALUMINIUM ALLOY.
12. YOYSTICK HARNESS LENGHT 0,3 M. MIN.
13. YOYSTICK HARNESS WIRE MIL-M22759/11-28-X. 4
14. SEALED FOR IP65

**15-ENVIRONMENTAL CONDITIONS:**

- |   |  |
|---|--|
| 15.1-HIGH TEMPERATURE<br>Storage +85°C<br>Operating +70°C                   | MIL-STD-810C<br>METHOD 501.1<br>Proc. I and II   |
| 15.2-LOW TEMPERATURE<br>Storage -50°C<br>Operating -40°C                    | MIL-STD-810C<br>METHOD 502.1<br>Proc. I          |
| 15.3-TEMPERATURE SHOCK<br>-40°C TO + 70°C<br>5 cycles                       | MIL-STD-810C<br>METHOD 503.1<br>Proc. I          |
| 15.4-TEMPERATURE-ALTITUDE<br>-40°C TO + 85°C<br>-1000 TO +30000 ft          | MIL-STD-810C<br>METHOD 504.1<br>Proc. I<br>Cat.4 |
| 15.5-SHOCK<br>30G, 11 msec, half sine<br>3 axes                             | MIL-STD-810C<br>METHOD 516.2                     |
| 15.6-VIBRATION<br>5-20 hZ; 0.10 DA<br>20-74 Hz; 0.036 DA<br>74-2000 Hz; 10G | MIL-STD-810C<br>METHOD 514<br>Proc. I            |
| 15.7-ACCELERATION<br>6G LEVEL   | MIL-STD-810C<br>METHOD 513<br>Proc. II           |
| 15.8-HUMIDITY<br>40°C 95%RH<br>240 Hrs.                                     | MIL-STD-202<br>METHOD 103<br>Cond. A             |
| 15.9-SALT FOG   | MIL-STD-810C<br>METHOD 509.1<br>Proc. I          |
| 15.10-HUMIDITY<br>30°C-70°  | MIL-STD-810C<br>METHOD 507.1                     |



**CIRCUIT DIAGRAM**



**STANDARD TRANSFER CHARACTERISTIC**

<span style="border: 1px solid black; padding: 2px;">4</span> <span style="border: 1px solid black; padding: 2px;">3</span> <span style="border: 1px solid black; padding: 2px;">2</span>	4	12-06-2014	MOD. TIPO DI CAVO, ELIMINATA SPIANATA E REVISIONATO P/N	MV	AG	MD
	3	21-11-2013	ADDED MINIMUM DISTANCE KNOB	JL	AG	MD
	2	25-10-2011	ADDED SET TWO SCREW PLANE	JL	AG	MD
	1	26-10-2009	ADDED ENVIRONMENTAL CONDITION (RID. IN VERSIONE CAD)	RBF	AG	MD
	0	22-06-2009	FIRST EMISSION	AG	MD	MD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED	APPROVED	

Part description : MINIATURA TWO AXIS JOYSTICK	Part number : SJ111	P/N. rev. : 1	USE	
Drawing description : SPECIFICATION CONTROL DRAWING	Drawing : SJ111	Drawing. rev. : 4	LM	No
			TS	No
			PA	No
			SL	No
			CA	No
Model 3D: SJ111			DS	No
Unit : mm		Scale: 1:1	Size: A3	

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