

<b>DIAGNOSTIC MODES</b>			
<b>FAILURE</b>	<b>V<sub>out</sub> ANALOG</b> R <sub>pull-up</sub>	<b>V<sub>out</sub> ANALOG</b> R <sub>pull-down</sub>	<b>V<sub>out</sub> PWM</b> R <sub>pull-up</sub> = 1 kΩ V <sub>pull-up</sub> = V <sub>supply</sub> = 5 V
1: Broken GND	Diagnostic high area	Diagnostic low area	> 97 % V <sub>supply</sub> without modulation
2: Broken V <sub>out</sub>	Diagnostic high area	Diagnostic low area	> 97 % V <sub>supply</sub> without modulation
3: Broken V <sub>supply</sub>	Diagnostic high area	Diagnostic low area	> 97 % V <sub>supply</sub> without modulation
Over voltage V <sub>supply</sub> > 7 V	Diagnostic high area	Diagnostic low area	> 97 % V <sub>supply</sub> without modulation
Under voltage V <sub>supply</sub> < 2.7 V	Diagnostic high area	Diagnostic low area	> 97 % V <sub>supply</sub> without modulation

V<sub>pull-up</sub> can be independent to V<sub>supply</sub>

Cut off

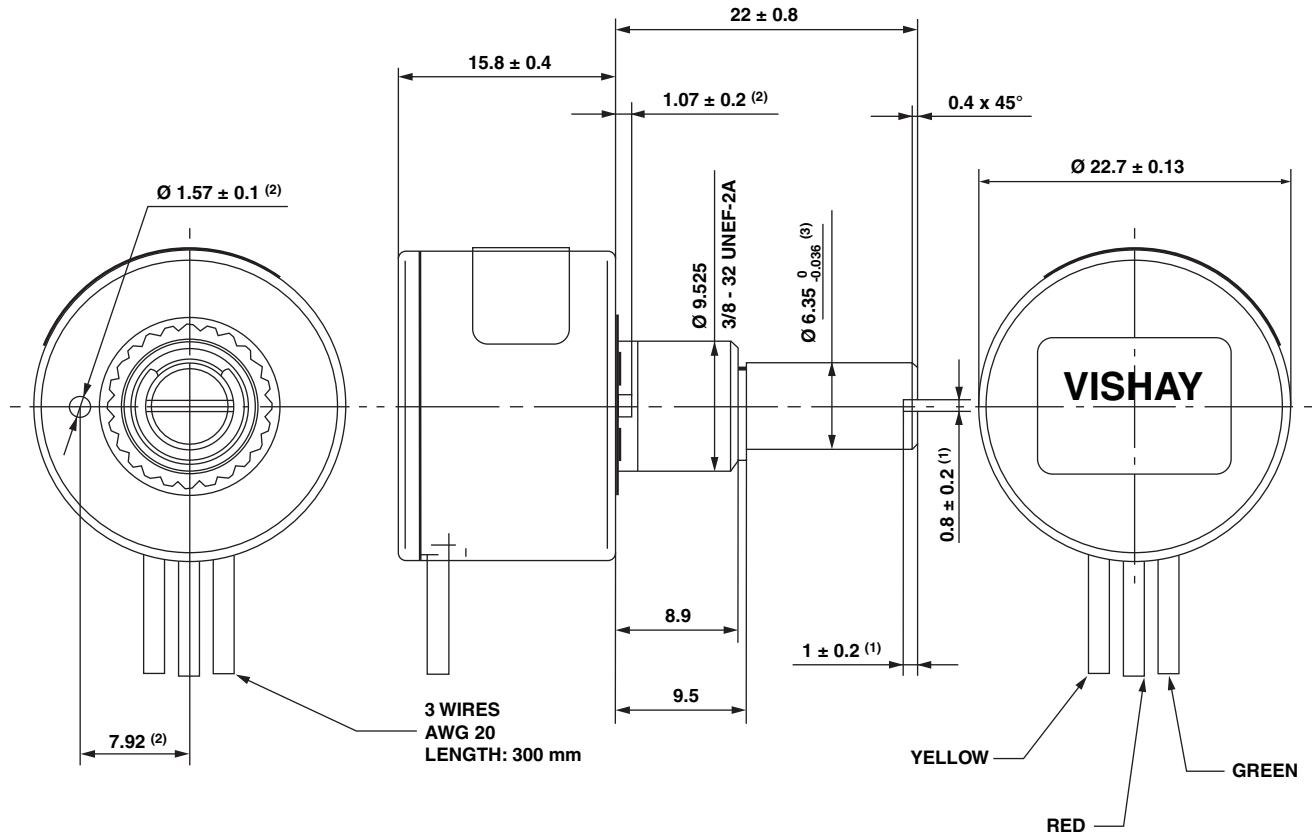
<b>ENVIRONMENTAL SPECIFICATIONS</b>	
Vibrations	20 g from 10 Hz to 2000 Hz
Shocks	3 shocks/axis; 50 g half a sine 11 ms
Operating temperature range	-45 °C; +125 °C
Life	> 10M of cycles
Rotational speed (max.)	120 rpm
Immunity to radiated electromagnetic disturbances	200 V/m 150 kHz/1 GHz
Immunity to power frequency magnetic field	200 A/m 50 Hz/60 Hz
Radiated electromagnetic emissions	30 MHz/1 GHz < 30 dBμV/m
Electrostatic discharges	Contact discharges: ± 4 kV Air discharges: ± 8 kV
<b>MATERIALS</b>	
Housing	Thermoplastic housing
Bushing	Brass nickel plated
Shaft	Stainless steel
Output	3 lead wires
<b>BUSHING MOUNT HARDWARE</b>	
Lockwasher internal tooth	Steel nickel plated
Panel nut	Brass nickel plated

**Note**

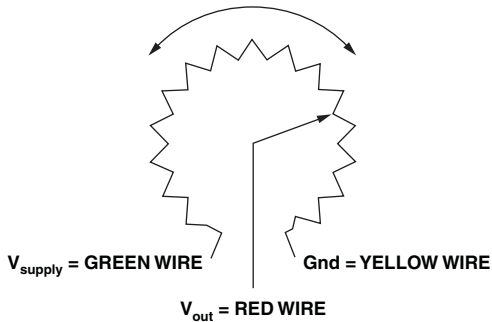
- Nothing stated herein shall be construed as a guarantee of quality or durability.



### DIMENSIONS in millimeters



**CW OR CCW ACCORDING  
OUTPUT MODE CHOICE**



**VIEWED FROM SHAFT**

### Notes

- (1) For version slotted shaft
- (2) For version non turn pin
- (3) For shaft type "1"

<b>MARKING</b>	
<b>Unit Identification</b>	Manufacturer's name and complete sap part reference, date code, and wiring correspondance: colors versus connections.