



GYRN3 - S

3 axis gyroscope

Range $\pm 50, \pm 100, \pm 150^{\circ}/s$
Accuracy 2 % FS
Sensitivity 40, 20, 13.3 mV/ $^{\circ}/s$
Cut off frequency 40Hz

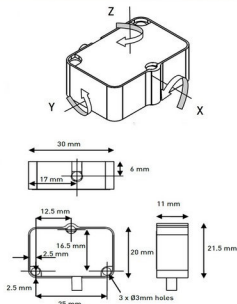
Supply voltage 5 to 16 V
Supply current 16 mA
Output impedance 47 Ω
Linear analog output 0 to 5 V
Output signal at 0 $^{\circ}$ /sec 2.5 V
Error at 0 $^{\circ}$ /sec $\pm 1^{\circ}/s$
Cross axis sensitivity 3 %

Offset drift (20 to 80 $^{\circ}$ C) $\pm 0.5^{\circ}/s$
Offset drift (20 to 100 $^{\circ}$ C) $\pm 0.8^{\circ}/s$
Gain drift (20 to 80 $^{\circ}$ C) $\pm 0.3\%$
Gain drift (20 to 100 $^{\circ}$ C) $\pm 1\%$

Aluminium housing 30x21.5x11 mm
Weight 30 g
Protection IP66

Vibration test 20 Gpp 5'
Shock 1000 G

Operating temp -20 to +105 $^{\circ}$ C
Storage temp -40 to +125 $^{\circ}$ C



Calibration table			
$^{\circ}/s$	$\pm 50^{\circ}/s$ 40mV/ $^{\circ}/s$	$\pm 100^{\circ}/s$ 20mV/ $^{\circ}/s$	$\pm 150^{\circ}/s$ 13.3mV/ $^{\circ}/s$
-150			0.5
-100		0.5	1.17
-50	0.5	1.5	1.83
0	2.5	2.5	2.5
+50	4.5	3.5	3.17
+100		4.5	3.83
+150			4.5

Out of Range

Ordering ref ex: GYRN3-S-XA-YB-ZC

GYRN3-S-XRange-YRange-ZRange

Range			
A	B	C	N
50 $^{\circ}/s$	100 $^{\circ}/s$	150 $^{\circ}/s$	Not wired

Red Supply
Black 0 V
White Signal X
Green Signal Y
Yellow Signal Z
Blue Diag (not to be connected)
Braid Connected to case

1 m cable of 6X26AWG FEP
 tinned copper braided cable 250V 200 $^{\circ}$ C