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PHS43100

ACOUSTIC-VIBRATION
INTEGRATED SENSORS

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PLACID INSTRUMENTS BV

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ACOUSTIC-VIBRATION INTEGRATED SENSORS



SPECIFICATION

The sensor consists of a threeaxial accelerometer and a free-field noise sensor. The housing is cut integrally to ensure the stability of each sensor. The accelerometer and noise sensor are our own products. Accelerometer measurement range $\pm 50g$, noise sensor test range: 20-20KHz.

All can meet the requirements of conventional vibration and noise testing. The product is fixed in a similar way to a conventional accelerometer, with either a magnetic mount or a direct paste. The output interface is a 5-pin aviation plug, and the connecting cable is a 5-pin aviation plug to 4 BNC cables.



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DATASHEET PLACID PHS43100



VIBRATION SENSOR

Measurement Range	100 g
Frequency Response X	DC~2 KHz
Frequency Response Y	DC~2 KHz
Frequency Response Z	DC~2 KHz
Sensitivity	20 mV/g
Transverse Sensitivity	≤5%
Linearity	≤1% FSO (max)
Accuracy	17 mg
Working Current	≤8 mA
Output Impedance	≤100 Ω
Power Supply Mode	Separate power supply
Supply Voltage	+5 V~+13 V (DC)
Temperature Range	-40 °C~125 °C
Housing Material	Aluminium alloy
Mounting Thread	M5
Weight	58 g (typ) (Excluding cable)

NOISE SENSOR

Open Circuit Sensitivity	2.5 mV/Pa
Frequency range	20~20000 Hz
Sensor diameter	Φ13.2 mm
Electric capacity	5.0 pF (Typical value)
Polarization voltage	0 V
Working voltage	+5 V~+13 V (DC)
Operation temperature	-40 °C~80 °C)
Working humidity	0~+95%RH



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