

Hall sensors

BH-900 series



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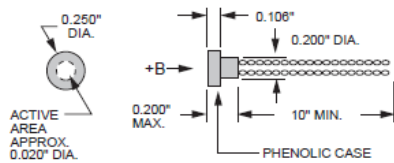
www.meggitt.com

www.fvbell.com

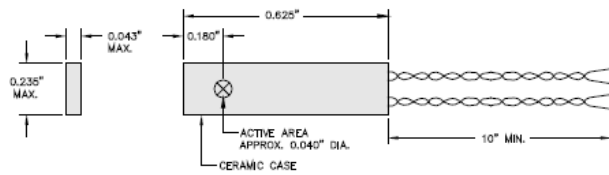
www.oeko.com

The BH-900 series Hall sensors are high performance units providing high linearity and broad field and temperature ranges for a wide variety of magnetic field measurements. All units in the series are encapsulated in a rugged, epoxy sealed case.

Axial Hall Sensors BHA-900, 910 & 921



Transverse Hall Sensors BHT-900, 910 & 921



Note: cross indicates tail of magnetic field vector



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Specifications

<u>Model:</u>	<u>BHT-900</u>	<u>BHT-910</u>	<u>BHT-921</u>	<u>BHA-910</u>	<u>BHA-921</u>
Input resistance	1.2 Ω	1.2 Ω	1.2 Ω	1.5 Ω	1.5 Ω
Output resistance	1.2 Ω	1.2 Ω	1.2 Ω	1.5 Ω	1.5 Ω
Magnetic sensitivity	.55 to 1.1 mV/kg	.55 to 1.1 mV/kg	.55 to 1.1 mV/kg	.55 to 1.1 mV/kg	.55 to 1.1 mV/kg
Max. resistive residual voltage	75 μ V	75 μ V	75 μ V	75 μ V	75 μ V
Max. control current @ 25°C	300 mA	300 mA	300 mA	300 mA	300 mA
Nominal control current	100 mA	100 mA	100 mA	100 mA	100 mA
Max linearity error (-30 to 30 kg)	1%	0.1%	1%	0.25%	1%
Max linearity error (-150 to 150 kg)	1.5%	n/a	2%	n/a	2%
Typical linearity resistance	500 Ω	50 to 500 Ω	500 Ω	50 to 500 Ω	500 Ω
Mean temperature coefficient of V_H	50 PPM/°C	50 PPM/°C	100 PPM/°C	50 PPM/°C	100 PPM/°C
Mean temperature coefficient of resistance	.15 %/°C	.15 %/°C	.6 %/°C	.15 %/°C	.6 %/°C
Temperature dependence of resistive residual voltage	0.1 μ V/°C	0.1 μ V/°C	0.1 μ V/°C	0.1 μ V/°C	0.1 μ V/°C
Operating temperature	-40 to 100 °C	-40 to 100 °C	-269 to 100 °C	-40 to 100 °C	-269 to 100 °C

Note: Due to continuous process improvement, specifications are subject to change without notice