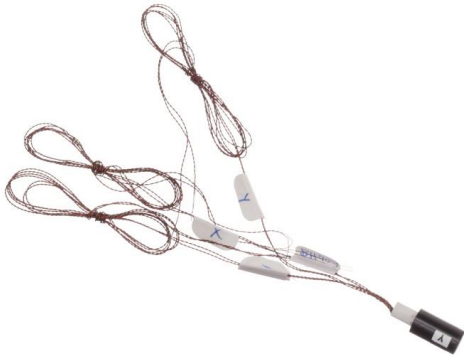


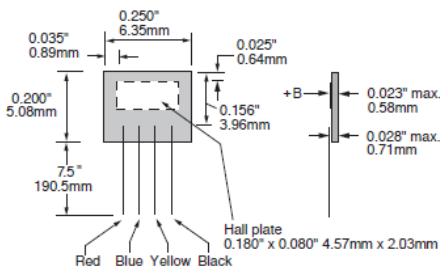
# Hall sensors

## BH-700 series

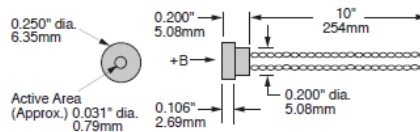


The BH-700 series are small, solid state devices that provide an output voltage proportional to the product of control current and ambient flux density. This series includes five single-axis models and one three-axis models. These models are capable of measuring axial and transverse magnetic fields.

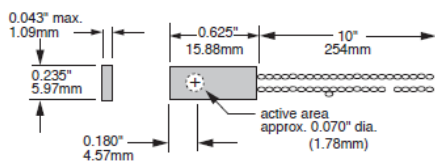
**Model BH-700 Low Cost Transverse**



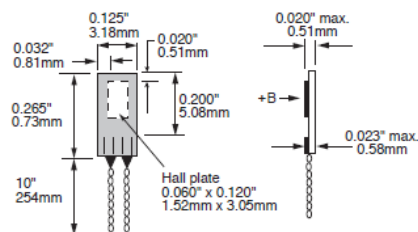
**Model BH-704 High Linearity Axial**



**Model BH-701 High Linearity Transverse**



**Model BH-705 General Purpose Transverse**



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# Hall sensors

## BH-700 series

### Specifications

<b>Model:</b>	<b>BH-700</b>	<b>BH-701</b>	<b>BH-702</b>	<b>BH-703</b>	<b>BH-704</b>	<b>BH-705</b>
Input resistance	5.5 Ω	2 Ω	3.5 Ω	3.5 Ω	2.5 Ω	2.2 Ω
Output resistance	5.5 Ω	2 Ω	3.5 Ω	3.5 Ω	2.5 Ω	2 Ω
Max. resistive residual voltage	1500 μV	75 μV	250 μV	100 μV	75 μV	300 μV
Max. control current @ 25°C	250 mA	300 mA	300 mA	300 mA	300 mA	250 mA
Nominal control current	200 mA	100 mA	200 mA	100 mA	100 mA	100 mA
Max linearity error	3%	n/a	n/a	1%	n/a	1%
Mean temperature coefficient of V <sub>H</sub>	-0.2 %/°C	-0.04 %/°C	-0.18 %/°C	-0.04 %/°C	-0.04 %/°C	-0.08 %/°C
Mean temperature coefficient of resistance	.2 %/°C	.18 %/°C	.18 %/°C	.15 %/°C	.18 %/°C	.2 %/°C
Temperature dependence of resistive residual voltage	6 μV/°C	0.3 μV/°C	2.5 μV/°C	0.5 μV/°C	0.5 μV/°C	1 μV/°C
Operating temperature	-40 to 100 °C	-40 to 100 °C	-55 to 100 °C	-40 to 100 °C	-40 to 100 °C	-65 to 100 °C
Storage temperature	-40 to 105 °C	-40 to 105 °C	-55 to 105 °C	-40 to 120 °C	-40 to 105 °C	-65 to 105 °C

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