

EW-410B

Shipped in packet-tape reel(5000pcs/Reel)

EW-410B is composed of a Ultra-high sensitive InSb Hall element and a signal processing IC chip in a package.

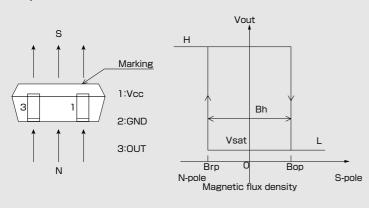
Bipolar Hall Effect Latch Supply Voltage 3~26.4V

Hall Element Continuous Excitation High Sensitivity
Bop:3mT

Output Open Collector SMT

Notice: It is requested to read and accept "IMPORTANT NOTICE" written on the back of the front cover of this catalogue.

Operational Characteristics



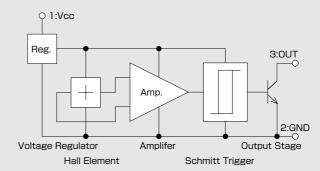


● Absolute Maximum Ratings (Ta=25°C)

Item	Symbol	Limit	Unit		
Supply Voltage	V _{cc}	26.4**	V		
Output H Voltage	V _{o(off)}	V _{cc}	V		
Output L Current	Isink	10	mA		
Operating Temperature Range	Topr	−40 ~ 115	c		
Storage Temperature Range	Tstg	−40 ~ 125	°C		

 $^{(\}ensuremath{\boldsymbol{\ast}})$ Please refer to Supply Voltage Derating Curve.

•Functional Block Diagram



Another product type with pulled-up resistor (EW-412B). Please contact AKM to obtain the detail information.

● Magnetic and Electrical Characteristics (Ta=25°C)

Item	Symbol	Conditions	Min.	Тур.	Max.	Unit
Supply Voltage	V _{CC}		3	12	26.4	٧
Operating Point	B _{OP}	V _{CC} =12V	1	3	6	mT
Release Point	B _{rp}	V _{CC} =12V	-6	-3	-1	mT
Hysteresis	Bh	V _{CC} =12V	2	6		mT
Output Saturation Voltage	V _{sat}	V _{CC} =12V,OUT"L",I _{Sink} =10mA			0.4	V
Output Leakage Current	I _{leak}	V _{CC} =12V,OUT"H",V _{Out} =12V			1	μΑ
Supply Current	I_{CC}	V _{CC} =12V,OUT"H"		5	6	mA

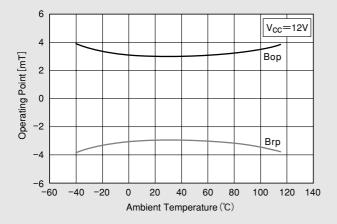
1 [mT] =10 [Gauss]

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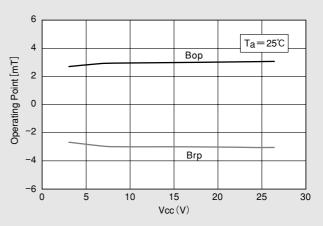
●Package (Unit:mm) ●(For reference only)Land Pattern (Unit:mm) 0,6 0.90 2 0.15 φ0.3 Sensor center 4.4±0.2 3.0±0.1 (0.65)0.70 0.70 0~0.1 8 0.8^{±0} 3 3.6 ±0.1 1.30 1.30].2^{±0.}] 2.6^{±0.1} Supply Voltage 0.4 0.4 1:Vcc 2:GND 30 The sensor center is located within the ϕ 0.3mm circle. Note) 3:0UT 25 20 Supply Voltage 15 10 (5.5)5 0 -20 20 60 100 -60 -40 0 40 80 120

●Temparature Dependence of Bop. Brp



Supply Voltage Dependence of Bop. Brp

Ambient Temperature $[^{\circ}C]$



С

е

h

p

r

q

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reliability.

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