

Shipped in bulk(500pcs/Bag)

EW-500 is composed of a Ultra-high sensitive InSb Hall element and a signal processing IC chip in a package.

Effect Latch 4.5~18V Excitation Bop: 10m1 Open Collector		Bipolar Hall Effect Latch	Supply Voltage 4.5~18V	Hall Element Continuous Excitation	Low Sensitivity Bop:10mT	Output Open Collector	SIP	
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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℃)

Item	Symbol	Min.	Max.	Unit
Supply Voltage	Vcc	-0.3	18 ^(*)	V
Output H Voltage	Vo(off)	-0.3	Vcc	V
Output L Current	Isink	0	15	mA
Storage Temperature Range	Тѕта	-40	+125	°C

 $(\boldsymbol{*})$ Please refer to Supply Voltage Derating Curve.

Recommended Operating Conditions

Item	Symbol	Min.	Тур.	Max.	Unit
Supply Voltage	Vcc	4.5	12	18	V
Operating Temperature Range	Topr	-30	+25	+115	°C

●Magnetic and Electrical Characteristics (Ta=25℃)

Item	Symbol	Conditions	Min.	Тур.	Max.	Unit	
Operating Point	Вор	Vcc=12V	5	10	20	mT	
Releasing Point	Brp	Vcc=12V	-20	-10	-5	mT	
Hysteresis	Bh	Vcc=12V	10	20		mT	
Output Saturation Voltage	VSAT	Vcc=12V,OUT"L", ISINK =10mA			0.4	v	
Output Leakage Current	Ileak	Vcc=12V,OUT"H",Vout=12V			1	μA	
Supply Current	lcc	Vcc=12V,OUT"H"			8	mA	

1 [mT] =10 [Gauss]

Functional Block Diagram



ASAHI KASEI MICRODEVICES

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within the ϕ 0.3mm circle.

Note2) The sensor part is located 0.5mm(typ.) far from marking surface.



Temperature Dependence of Bop. Brp

Supply Voltage Dependence of Bop. Brp



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