# EW-450, EW-550

**UNIPOLAR HALL EFFECT SWITCHES** 

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

## **ASAHI HALL EFFECT ICs**

ASAHI KASEI ELECTRONICS Hall Effect ICs are composed of a Ultla-high sensitive InSb Hall element and a signal processing IC chip in a package. ASAHI KASEI ELECTRONICS Hall Effect ICs have high sensitivity and good stability,

#### **FEATURES**

Bop(max):20mT Effective Performance at Low Magnetic Field 4.5V to 18V Operation Highly Resistant to Mechanical Stress Stable Operation in Broad Temperature Range Compact Size **Open Collector** 

# **APPLICATIONS**

Rotor Position Sensor for Precision Motors. Stroke Sensor **Proximity Switch** Encorder **Current Switch** etc.



Hall cell Amplifier

Voltage

Regulator

#### ABSOLUTE MAXIMUM RATINGS(Ta = 25 )

Item	Symbol	Limit	Unit				
Supply Voltage *1	Vcc	18	/y_				
Output "OFF" Voltage	Vo(off)	18	×				
Output "ON" Current	I sink	15	mA				
Operating Temperature Range	Topr	- 20~ + 115					
Storage Temperature Range	Tstg	- 40~ + 125 🔿					



Schmitt

trigger

se refer to(Fig 1) DERATIN

### ELECTRICAL CHARACTERISTICS Ta = 25 , Vcc = 4.5 ~ 18V DC.)

Item	Symbol	Conditions	Min.	Тур.	Max.	Unit
Operate Point	Bop	Vcc=12V			20	mT
Release Point	Втр	Vcc=12V	5			mT
Hysteresis	Bh		1.5			mT
Output Saturation Voltage	Vsat	Output"L", I sink=10mA			0.4	V
Supply Current	I cc	Output"H", Vcc=12V			8	mA
Output Leakage Current	I leak	Output"H", Vo=12V			1	μA

1mT = 10Gauss

②Gnd

Output

stage

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