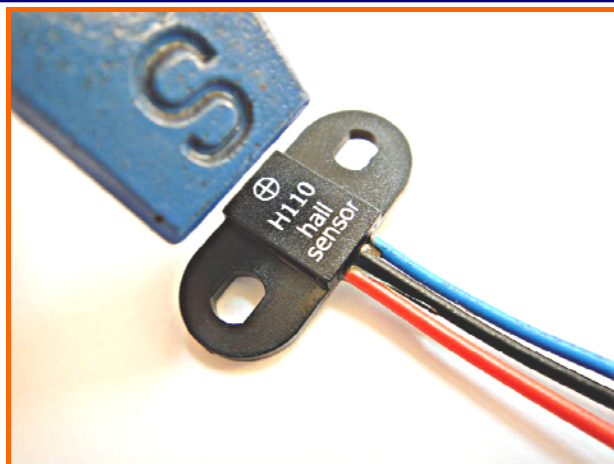


H110 Hall Effect Sensor 霍爾傳感器



Features :

- Operation voltage range from **2.4V** to **26V** with reverse voltage protection ◦
- Operating temperature range from **-25°C** to **80°C** ◦
- **ON (Low)** with magnetic **South Pole** and **OFF (High)** without magnetic field or with magnetic **North Pole** ◦
- Built in a temperature compensated voltage regulator, a differential amplifier, a hysteresis controller and an open-collector output driver capable of sinking up to **20mA** current load

Benefits :

- High switching speed up to **10kHz** ◦
- Unaffected by harsh environments ◦
- Long life ; Up to 20 billion operations ◦
- Customer selection of cable length and connector type ◦

Applications :

- Position 、 Limit and Angle sensing ◦
- RPM 、 Speed and Flow measurement ◦

Electrical Characteristics :

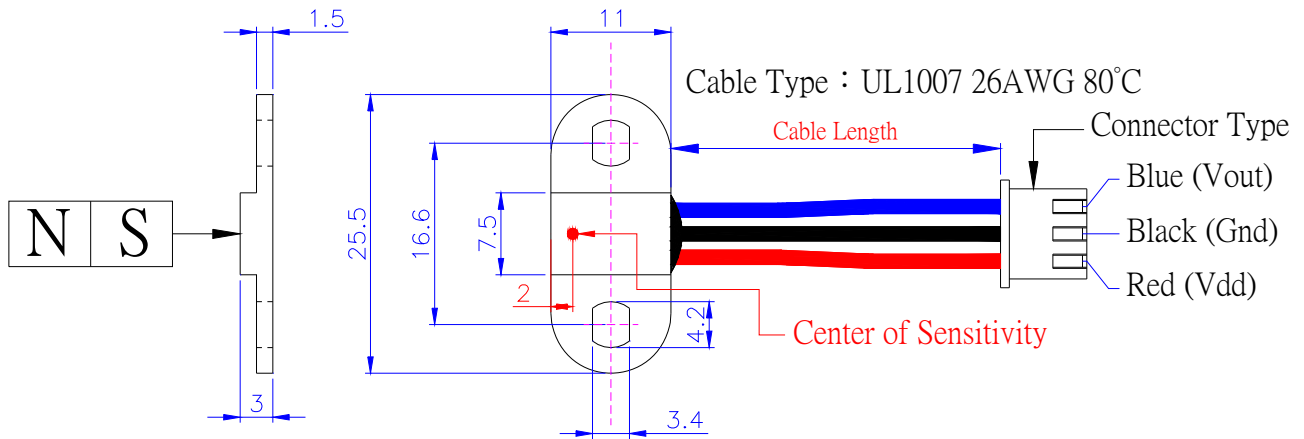
(T = +25°C , Vcc = 2.4V to 26V)

Characteristic	Symbol	Test Condition	Min	Typ	Max	Unit
Supply Voltage	Vcc	—	2.4	—	26	V
Output Saturation Voltage	Vout (sat)	Vcc = 12V, Ic = 10mA, B > Bop	—	0.2	0.6	V
Output Leakage Current	Leakage	Vcc = 12V, B < Bop	—	< 0.1	10	uA
Supply Current	Supply	Vcc = 12V, Output Open	—	2.8	8	mA
Output Rise Time	Tr	Vcc = 12V, RL = 2KΩ, CL = 20pf	—	1.0	10	μs
Output Falling Time	Tf	Vcc = 12V, RL = 2KΩ, CL = 20pf	—	0.3	1.5	μs

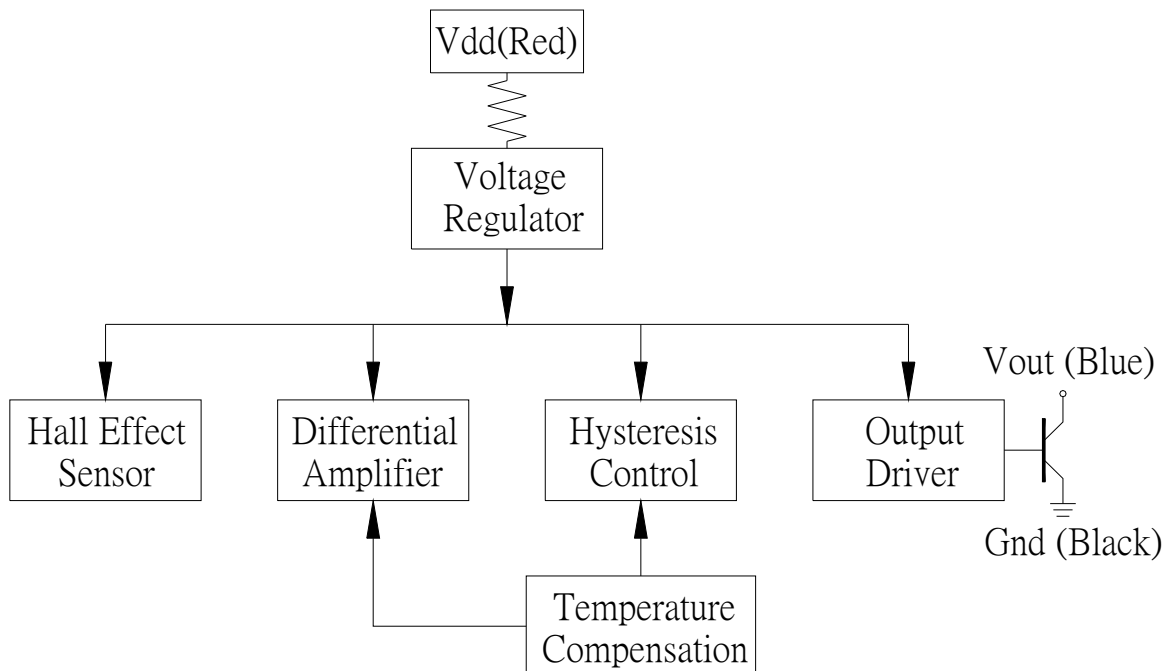
Magnetic Characteristics :

Characteristic	Symbol	Min	Typ	Max	Unit
Operating Point	Bop	—	—	80	Gauss
Release Point	Brp	10	—	—	Gauss
Hysteresis Window	Bhys	—	10	30	Gauss

Dimensions Unit : mm



Block Diagrams



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