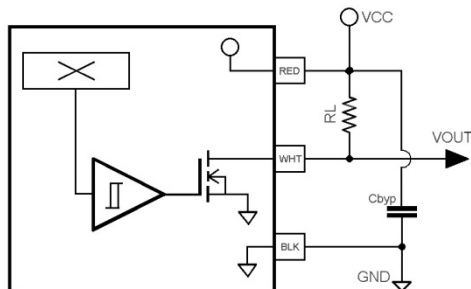


Electrical & Environmental Characteristics								
Specification	Conditions	Micro-Power Switch			Standard Switch & Latch			Unit
		Min	Typ	Max	Min	Typ	Max	
Supply Voltage	Operating	2.5	2.75	3.5	3		24	V
Output Leakage Current	$V_{OUT} = \text{Max Voltage}$		< 1	1			10	μA
Output On Voltage			100	300		185	500	mV
Awake Time			45	90				μs
Period			45	90				ms
Duty Cycle			0.1					%
Chopping Frequency			340			800		kHz
Supply Current	Chip Awake			2			4	mA
	Chip Asleep			8				μA
	$V_{CC} = 3.5\text{V}$		6.7	10				μA
	$V_{CC} = 12\text{V}$						4	mA
Operating Temperature		-40		+85*	-40		+85*	C
Storage Temperature		-65		+105	-65		+105	C

*Higher temperature versions available

Magnetic Characteristics					
Specification	Conditions	Micro-Power Switch (Typ)	Standard Switch (Typ)	Standard Latch (Typ)	Unit
Operation Point	$V_{OUT} = \text{Low (Output On)}$	37	35	22	G
Release Point	$V_{OUT} = \text{High (Output Off)}$	31	25	-23	G
Hysteresis		6	10	45	G

Circuit Diagram for 3-wire Hall Effect Sensors



Notes:

- Add external pull-up resistor (R_L) for sinking output between V_{CC} and V_{OUT} .
- Add external bypass capacitor (C_{BYP}) close to the sensor to reduce external noise as needed.

Part Number Builder				
Series	Hall Model	Hall Function	Cable Length (mm)	Termination
MH04, MH21	10 (Micro-Power)* 11 (Standard)	S (Switch) L (Latch)	300*	W (5mm stripped and tinned)*
	*Micro-Power version only available as switch function		*other lengths available	*other terminations available
Example Part Number: MH04-10S-300W				