

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China









www.standexmeder.com

Micro-Power Hall Effect Sensors MH04, MH21 and MH11/M12



Contact Information:

Standex-Meder Electronics World Headquarters 4538 Camberwell Road Cincinnati, OH 45209 USA

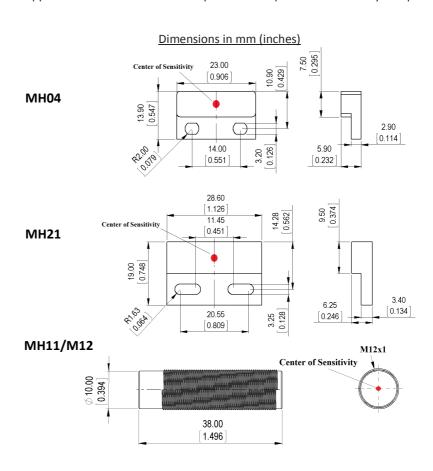
Standex Americas (OH) +1.866.STANDEX (+1.866.782.6339) info@standexelectronics.com

Meder Americas (MA) +1.800.870.5385 salesusa@standexmeder.com

Standex-Meder Asia (Shanghai) +86.21.37820625 salesasia@standexmeder.com

Standex-Meder Europe (Germany) +49.7731.8399.0 info@standexmeder.com

- > Standex-Meder Hall Effect Sensors offer solid state reliability, low power consumption, and consistent activation points over a wide temperature range in a rugged and environmentally isolated package.
- Micro-Power versions operate on 2.5-3.5V battery voltage with only 5μA average supply current vs. the industry average of 5mA
- Custom options include: output- switch, latch, analog, angular, etc., high temperature resistance, package design and much more.
- > Standex-Meder specializes in customizing designs to specific customer needs for a wide range of applications. Please contact us to provide the optimal solution for your specific needs.





Micro-Power Hall Effect Sensor

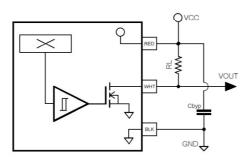
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Electrical & Environmental Characteristics								
Specification	Conditions	Micro-Power Switch			Standard Switch & Latch			Unit
		Min	Тур	Max	Min	Тур	Max	Unit
Supply Voltage	Operating	2.5	2.75	3.5	3		24	V
Output Leakage Current	V _{OUT} = Max Voltage		< 1	1			10	μΑ
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
	Chip Awake			2			4	mA
Cupalit Current	Chip Asleep			8				μΑ
Supply Current	V _{CC} = 3.5V		6.7	10				μΑ
	V _{CC} = 12V						4	mA
Operating Temperature		-40		+85*	-40		+85*	С
Storage Temperature		-65		+105	-65		+105	С

^{*}Higher temperature versions available

Magnetic Characteristics							
Specification	Conditions	Micro-Power Switch (Typ)	Standard Switch (Typ)	Standard Latch (Typ)	Unit		
Operation Point	V _{OUT} = Low (Output On)	37	95	22	G		
Release Point	V _{OUT} = High (Output Off)	31	70	-23	G		
Hysteresis		5.9	25	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)*	S (Switch)	500*	W (5mm stripped and tinned)*	
MH11/M12	11 (Standard)	L (Latch)			
		A (Analog)			
	*Micro-Power version only		*other lengths available	*other terminations available	
	available as switch function				
Example Part Number: MH04-10S-500W					