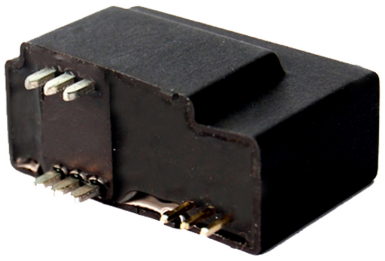
MCT-D-25LAH 多量程闭环型电流传感器的初、次级之间是绝缘的，可用于测量直流、交流和脉冲电流。

The MCT-D-25LAH multi-range mode current sensor is a closed loop device based on the principle of the hall effect and null balance method. The output from the current sensor is the balancing current which is a perfect image of the primary current reduced by the number of secondary turns at any time. This current can be expressed as a voltage by passing it through a resister. It provides accurate electronic measurement of DC, AC or pulsed currents.



电参数 Electrical data(Ta=25℃±5℃)

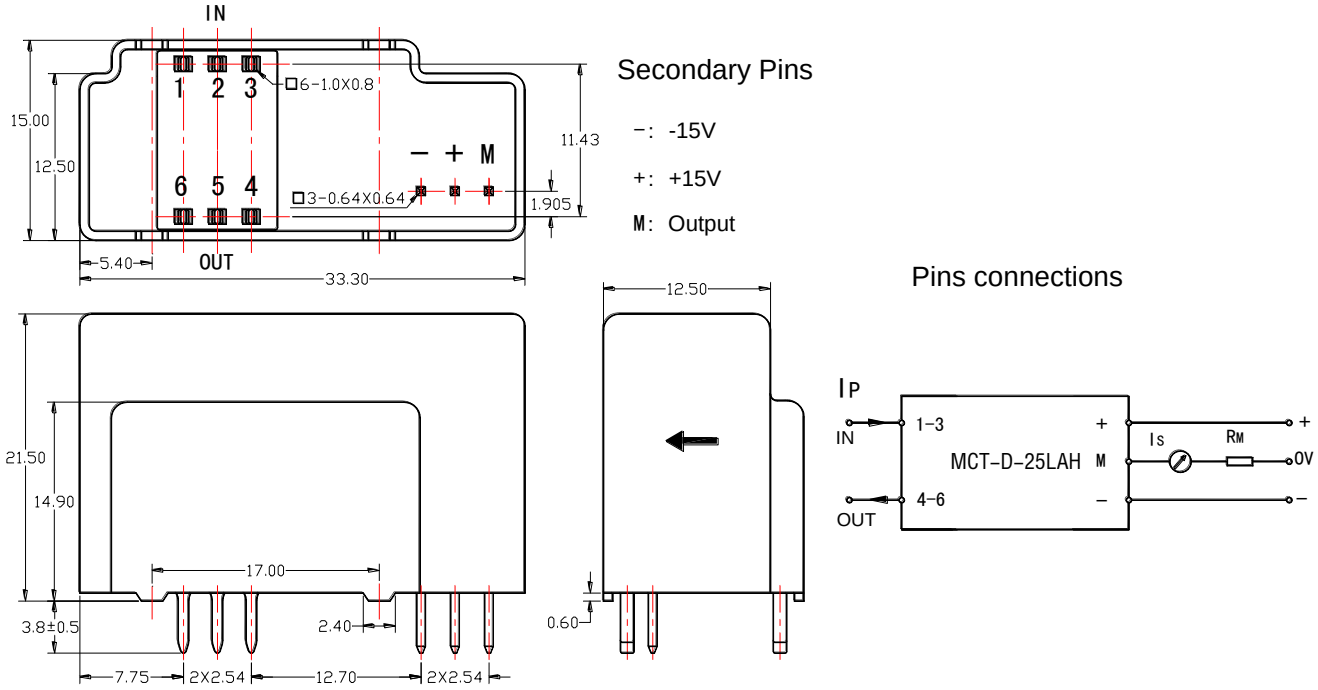
型号 Type / 参数 Parameter	MCT-D-25LAH		单位 Unit
额定输入电流(Ipn) Rated input (Ipn)		25	A
测量电流范围(Ip) Measure range(Ip)		0～±100	A
测量电阻 Measure resister with ±12V		@ IPN(DC) Rmin=100, Rmax=420	Ω
		@ IPN(RMS) Rmin=75, Rmax=300	Ω
测量电阻 Measure resister with ±15V		@ IPN(DC) Rmin=120, Rmax=535	Ω
		@ IPN(RMS) Rmin=82, Rmax=385	Ω
匝 比 (Np/Ns) Turns ratio(Np/Ns)		1-2-3:1000	T
额定输出电流(Isn) Rated output (Isn)	@Ip=±Ipn	±25±0.5%FS	mA
电源电压 Supply voltage		±12～±15	V
功耗电流 Power consumption		20+IpX(Np/Ns)	mA
失调电流 Offset current	@Ip=0	±0.2	mA
失调电流温漂 Offset current drift	@ -40～+85℃	±0.5	mA
响应时间 Response time	@50A/μS,10%-90%	＜1	μs
线性度 Linearity	@Ip=0-±Ipn	≤0.1	%FS
绝缘电压 Galvanic isolation	@ 50,AC,1min	5.0	KV
di/dt 跟随精度 di/dt accurately followed		＞100	A/μs
带宽 Bandwidth	@ -3dB	DC…200	KHz
次级线圈电阻 Secondary coil resister	@ +70℃	35	Ω

应用 Applications

- 变频调速系统 Variable speed drives
- 电焊机 Welding machine
- 通讯电源 Battery supplied applications
- 不间断电源 Uninterruptible Power Supplies (UPS)
- 电化学 Electrochemical
- 交换式电源供应 Switched Mode Power Supplies (SMPS)I

结构参数 Mechanical dimension(for reference only)

1. All dimensions are in mm.
2. General tolerance ±1mm.



接线图 Pin connections

Primary turns	Rated current IPN (A)	Rated output IS (mA)	Primary resistance [mΩ]	Primary inductance [uH]	Pins connections
1	25	25	0.15	0.01	6 4 OUT IN 1 3
2	12	24	0.75	0.05	6 4 OUT IN 1 3
3	8	24	1.45	0.14	6 4 OUT IN 1 3

使用说明 Directions for use

1. 当待测电流从传感器穿过，即可在输出端测得电压大小。(注意：错误的接线可能导致传感器损坏)
When the current will be measured goes through a sensor, the voltage will be measured at the output end.
(Note: The false wiring may result in the damage of the sensor).
2. 可按用户需求定制不同额定输入电流和输出电压的传感器。
Custom design in the different rated input current and the output voltage are available.

执行标准 Standards

- UL94-V0.
- EN60947-1:2004
- IEC60950-1:2001
- EN50178:1998
- SJ 20790-2000

总体参数 General date

	数值 Value	单位 Unit	符号 Symbol
工作温度 Operating temperature	-40 to +85	ºC	TA
储存温度 Storage temperature	-40 to +125	ºC	TS
毛重(约) Mass(approx)	15	g	M