

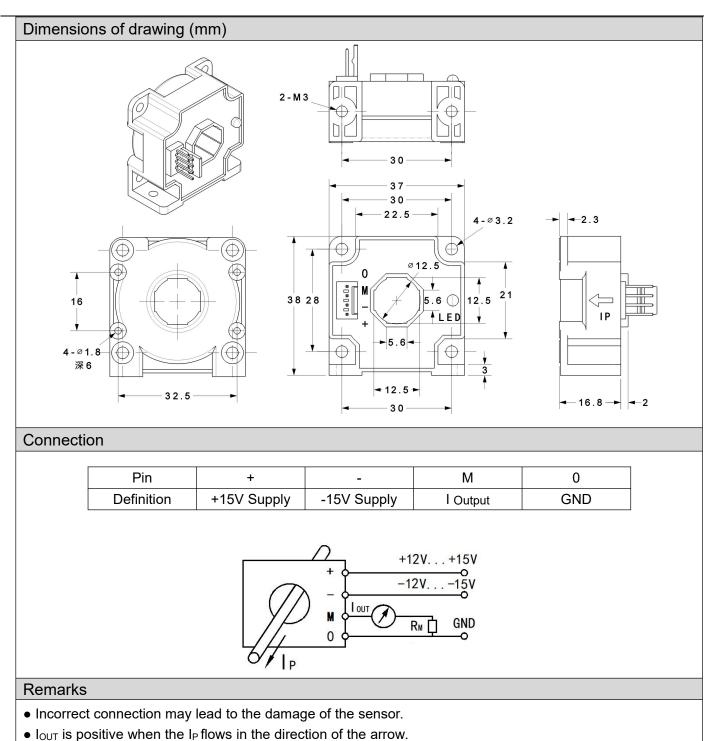
DCSM100LRCH High-Precision Current Transducer

DCSM100LRCH Current Transducer using the principle of fluxgate .It can measure DC, AC, pulse, and various irregular wave form currents under electrical isolation conditions.It has ultra-high accuracy and linearity features.



	Туре	DCSM100LRCH		
I _{PN}	Primary nominal input current	±100		A(DC)
IPNAC	Primary nominal RMS current	70.7		A(AC)
I _P	Measuring range of primary current	$0 \sim \pm 240$ (±15V, R _M =0-32 Ω)		Α
I _{OUT}	Secondary nominal output current	±100		mA
K _N	Conversion ratio	1:1000		
R _M	Measuring resistance	with±12V @±100Amax	0(min) 79(max)	Ω
		with±15V @±100Amax	0(min) 109(max)	Ω
Vc	Supply voltage	±12~±15(±5%)		V
lc	Current consumption	15+I _P (mA)/K _N		mA
VD	Insulation voltage	AC/50Hz/1min	3	kV
Х	Accuracy	@T _A =25°C <(0.05	%FS
٤L	Linearity	@lp=0-±lpN ±	0.02	%
lo	Zero offset current	@T _A =25°C <:	±10	uA
I _{OT}	Thermal drift of I _o	@I _{PN} =0 T _A =-40~+85°C <±10		uA
T _R	Response time	@100A/µS, 10%-90% ≤1		μs
f	Frequency bandwidth	@-3dB DC~100		kHz
di/dt	di/dt accurately followed	>100		A/µs
TA	Ambient operating temperature	-40~+85		°C
Ts	Ambient storage temperature	-40~+125		°C
Rs	Secondary coil resistance	@T _A =25°C 15		Ω
m	Mass	38		g





- Operating Status Instructions
- 1, Normal Status: The green indicator is "on" under the normal working conditions.
- 2, Fault Status: The green light is "off" that indicates the sensor is in fault mode.
- Trouble-shooting:

a) When the green light is off, the power supply should be checked as the first step;

b) If the power supply is normal, then the primary current is over the specified measurement range and the sensors will be in overload mode. In this mode, the sensors will be working in non-zero flux status, the secondary and primary currents are not in proportional. Once the primary current return to the specified measurement range, the sensors well be running normally.

• The temperature of the original measuring cable or busbars should not exceed 100 $^\circ\!\!\mathbb{C}$.