



DATA SHEET

DC Leakage Current Sensor

PN: CHFK10LTD15D4C-S1

I_{PN}=10A

Feature

- DC Leakage Current Sensor develops on base of the Flux-gate principle
- For the electronic measurement of currents: small DC single, with galvanic separation between primary circuit and secondary circuit
- Supply voltage: DC ±12 .. 15V

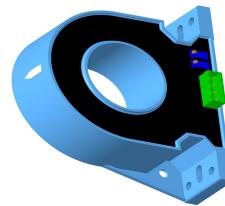
Advantages

- Easy installation
- Low power consumption
- Low power consumption
- High immunity to external interference

- Very good linearity
- Can be customized

Applications

- The current detection of the lift
- DC panel detection
- The signal system
- Current differential detection



CE RoHS



Electrical data: (Ta=25°C, Vc=±15VDC, R_L=10KΩ)

Ref Parameter	CHFK10LTD15D4C-S1
Rated input I _{PN} (mA) DC	10
Measuring range I _P (A)	0~±12
Output current I _O (mA) @I _P , T=25°C	4.0±16.0*I _P /I _{PN}
Load resistance R _L (Ω)	>300
Supply voltage V _C (V)	(±12~±15) ±5%
Accuracy X _G (%) @I _{PN} , T=25°C	≤±1.0
Offset current I _{OE} (mA) @I _P =0, T=25°C	<±0.2
Temperature variation of I _{OE} I _{OT} (mA/°C)	@I _P =0, -40 ~ +85°C ≤±0.005
Hysteresis offset current I _{OH} (mA)	@I _P =0, after 1*I _{PN} ≤0.05
Linearity error ε _R (%FS)	≤1.0
Response time t _{ra} (ms)	@90% of I _{PN} ≤300
Power consumption I _c (mA)	15+I _O
Bandwidth BW(KHZ)	@-3dB, I _{PN} DC



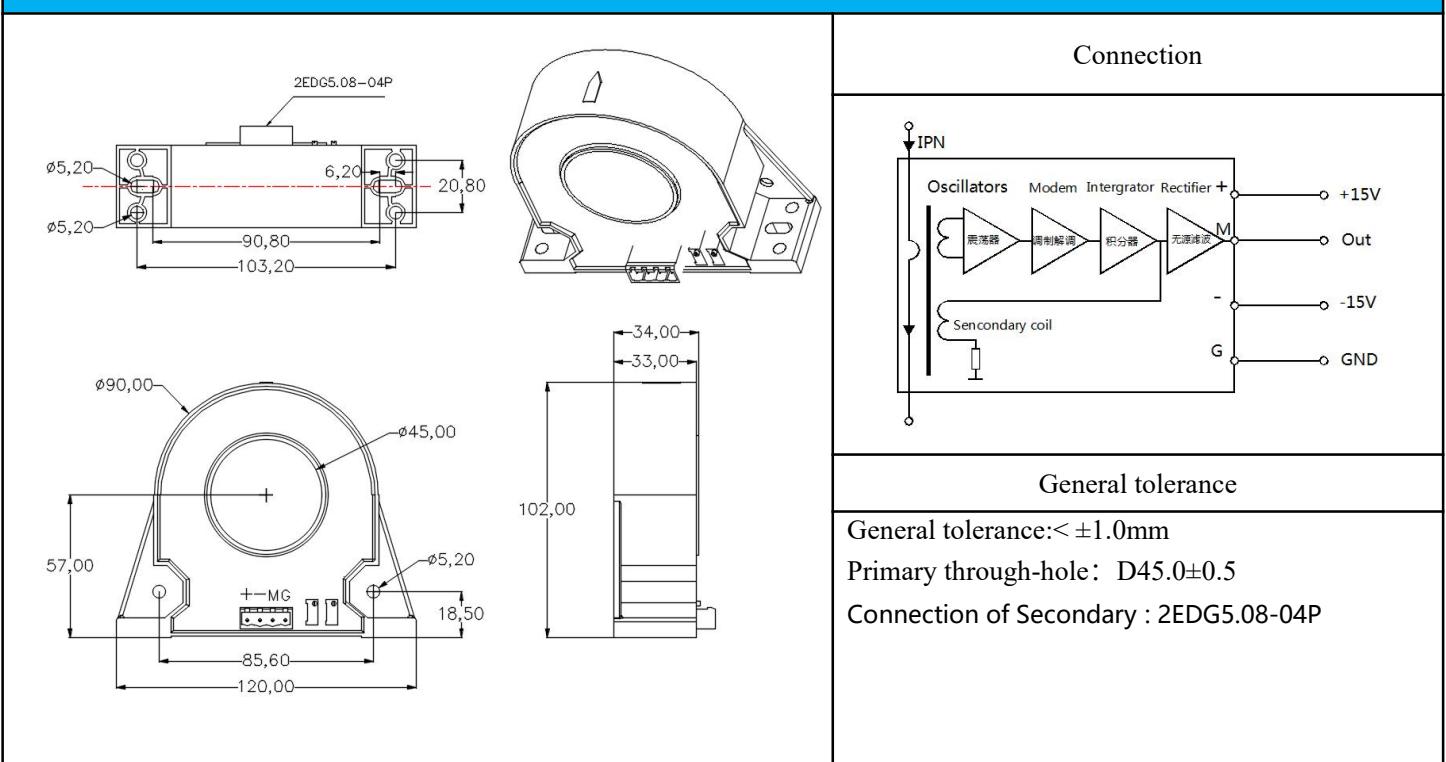
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Insulation voltage Vd(KV)	@50/60Hz, 1min,AC	3.0
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General data:

Parameter	Value
Operating temperature TA(°C)	-40 ~ +85
Storage temperature TS(°C)	-40~ +125
Mass M(g)	65
Plastic material	PBT G30/G15, UL94- V0;
Standards	IEC60950-1:2001 EN50178:1998 SJ20790-2000

Dimensions(mm):



Remarks:

- When the current will be measured goes through the primary pin of a sensor, the voltage will be measured at the output end.(Note:The false wiring may result in the damage the sensor).
- Custom design in the different rated input current and the output voltage are available.
- The dynamic performance is the best when the primary hole if fully filled with.
- The primary conductor should be <100°C.

WARNING : Incorrect wiring may cause damage to the sensor.

