



DATA SHEET

DC Leakage Current Sensor

PN: CHD_E4T15D5

I_{PN}=05~2000mA

Feature

- DC Leakage Current Sensor develops on base of flux-gate principle
- Apply unique patented technology for measure tiny current (mA level)
- For the electronic measurement of currents: small DC single, with galvanic separation between primary circuit and secondary circuit
- Supply voltage: DC $\pm 12 \sim 15$ V

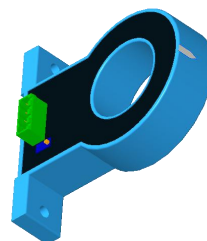
Advantages

- Easy installation
- Only one design for wide current ratings range
- Optimized response time
- Low power consumption
- High immunity to external interference

- Can be customized

Applications

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



RoHS

Electrical data: (T_a=25°C, V_c= ± 15 VDC, R_L=10K Ω)

Parameter Ref	CHD10 E4T15D5	CHD20 E4T15D5	CHD30 E4T15D5	CHD40 E4T15D5	CHD50 E4T15D5	CHD100 E4T15D5	CHD1000 E4T15D5
Rated input I _{pn} (mA) DC	10	20	30	40	50	100	1000
Measuring range I _p (mA)	0~ ± 14	0~ ± 28	0~ ± 42	0~ ± 56	0~ ± 70	0~ ± 140	0~ ± 1400
Output voltage V _o (V)	$\pm 5.0 * (I_p / I_{PN})$ DC or 4~20mA optional						
Load resistance(R _L)	>10						
Supply voltage V _c (V)	$(\pm 12 \sim \pm 15) \pm 5\%$						
Accuracy X _G (%)	@I _{PN} , T=25°C		$\leq \pm 1.0$				
Offset voltage V _{OE} (mV)	@I _p =0, T=25°C		< ± 50				
Temperature variation of V _{OE} V _{OT} (mV/°C)	@I _p =0, -40~+85°C		$\leq \pm 2.0$				
Hysteresis offset voltage V _{OH} (mV)	@I _p =0, after 1*I _{PN}		$\leq \pm 25$				
Linearity error ϵ_r (%FS)			<1.0				
Response time τ_{ra} (ms)	@90% of I _{PN}		<200				
Power consumption I _c (mA)			10+I _s				



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Bandwidth BW(KHZ)	@-3dB, I _{PN}	DC
Insulation voltage Vd(KV)	@50/60Hz, 1min,AC	3.0

General data:

Parameter	Value
Operating temperature TA(°C)	-10 ~ +70
Storage temperature TS(°C)	-25 ~ +70
Mass M(g)	220
Plastic material	PBT G30/G15, UL94- V0;
Standards	IEC60950-1:2001
	EN50178:1998
	SJ20790-2000

Dimensions(mm):

接线 Connection

公差 General tolerance

总公差
General tolerance: $\pm 0.5\text{mm}$
初级过孔尺寸
Primary through-hole: $D 40.0 \pm 0.3$
次级连接器型号 Connection of Secondary :
2EDG5.08-04P

Remarks:

- When the current goes through the primary pin of a sensor, the voltage will be measured at the output end.
- Custom design is available for the different rated input current and the output voltage.
- The dynamic performance is the best when the primary hole is fully filled with.
- The primary conductor should be <math>< 100^\circ\text{C}</math>.

WARNING : Incorrect wiring may cause damage to the sensor.

