

产品规格书

PRODUCT APPROVAL SHEET

客户名称:			
CUSTOMER:			
贵司制品名:	我司制品名:	直流电流传感器	
CUSTOMER PN:	PRODUCT PN:	DC Current Sensor	
贵司规格:	我司规格:	TFY-CSB-KZL-200	
PRODUCT CODE:	PRODUCT CODE:		
贵司料号:	我司规格书编号:	TFY-CSB-KZL-200	
CUSTOMER NO.	PRODUCT NO.		
<input type="checkbox"/> 新品承认	批准 APPROVAL: PLB 日期 Date: 2021/10	审查 CHECK: ZMY 日期 Date: 2021/10	设计 DESIGN: WYD 日期 Date: 2021/10
<input type="checkbox"/> NEW APPROVE			
<input type="checkbox"/> 规格变更再承认			
<input type="checkbox"/> CHANGE CODE APPROVE AGAIN			
<input type="checkbox"/> 材料变更再承认			
<input type="checkbox"/> CHANGE MATERIAL APPROVE AGAIN			
贵司承认栏 APPROVAL SIGNATURE			
贵司印章 Company seal			
确认人:		联系电话:	
请于 年 月 日前承认返回, 日期 DATE: PLEASE RETURN TO US AFTER CONFIRMED! THANK YOU!			

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1. Range of Application

TFY-CSB-KZL series current sensor is a high-precision current measurement module designed based on tunnel magnetoresistance technology and closed-loop working principle. It can measure different current waveforms such as DC, AC and pulse.

2. Operating Conditions

2.1 Atmospheric Pressure: 63kPa~106kPa, altitude below 4000m

2.2 Climate: No gas, stream, chemical deposition, grime that seriously affect the insulation of sensors and other corrosive and explosive medium.

2.3 Ambient Temperature and Humidity (Table 1)

Table 1 Range of Ambient Temperature and Humidity

Conditions	Range	Conditions	Range
Ambient operating temperature	-40°C~85°C	Mean Annual Humidity	<75%
Ultimate operating temperature	-40°C~95°C	30 Days (These days are naturally distributed throughout the year)	95%
Ambient storage temperature	-40°C~85°C	Occasional on other days	85%

3. Reference Standard

JBT 7490-2007 *Hall Effect Current Sensor*

GB/T33708-2017 *Static Meter for DC Energy*

Q/GDW 1825-2013 *Technical Specification for DC Electricity Meters*

DL/T 1484-2014 *Technical Specification for DC Electricity Meters*

4. Structure and Dimensions

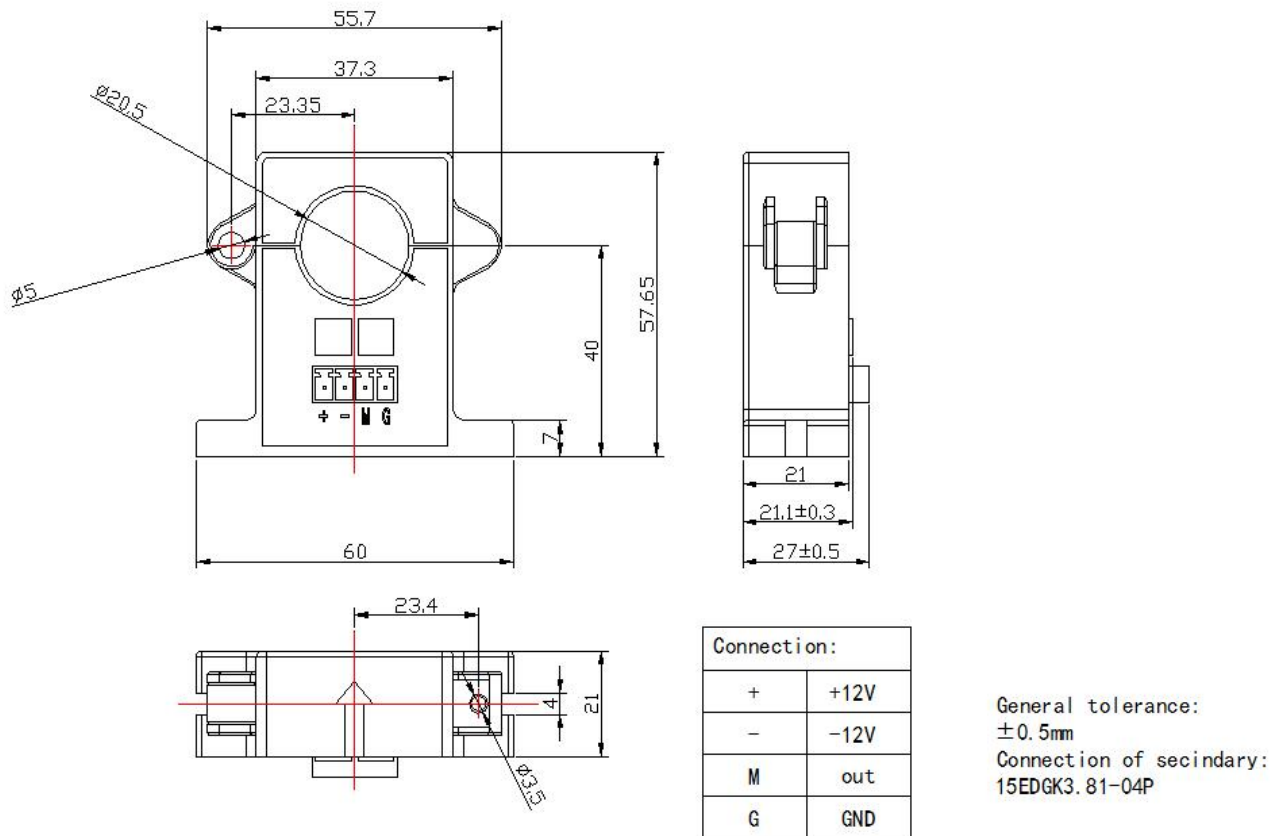


图 1 尺寸图

5. Electrical Parameters: (Ta=25°C)

Definition	符号	值	单位
Rated input	I_{pn}	±200	A
Maximum measurement range	I_p	±240	A
Output voltage	V_o	±4.0* (I_p / I_{pn})	V
Load impedance	R_L	≥10	KΩ
Supply voltage	V_c	±12 (±5%)	V
Static Power Consumption (@+12V, $I_p=0A$)	I_c	≤5	mA
Max Power Consumption (@+12V, $I_p=250A$)	I_m	≤94	mA
Precision (0.01 I_{pn} ~0.05 I_{pn} @25°C)	X_G	0.3	%
Precision (0.05 I_{pn} ~1.2 I_{pn} @25°C)	X_G	0.1	%
Zero shift voltage ($I_p=0A$, @25°C)	V_{OE}	≤±1	mV

Response speed (@90% I_{pn})	T_{ra}	≤ 5	μS
Temperature effect on zero ($I_p=0A$, @-40~85°C)	V_{OT}	< 0.1	$mV/^\circ C$
Amplitude error temperature drift ($I_p=I_{pn}$, @-40~85°C)		< 1	%
Hysteresis offset voltage (@IP=0, after $1 \cdot I_{PN}$)	V_{OH}	$\leq \pm 1$	mV
Response speed (@90% I_{pn})	T_{ra}	≤ 5	μS