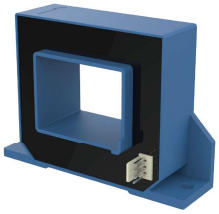
FOR REFERENCE ONLY
NEW PRODUCT PROMOTION
SUBJECT TO ACTUAL STATUS

HFCH-P26 OPEN LOOP CURRENT TRANSDUCER



Features

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

Applications

Uninterruptible Power Supplies (UPS), Static converters for DC motor drives, AC variable speed drives and servo motor drives, Power supplies for welding

SCOPE OF APPLICATION

HFCH-P26 family is suited for the electronic measurement of currents:
DC,AC,pulsed, with galvanic separation between the primary circuit and the secondary circuit.

ELECTRICAL DATA（Ta=25℃）

Parameter	Sym	HFCH-P26/200	HFCH-P26/400	HFCH-P26/500	HFCH-P26/600	HFCH-P26/800	HFCH-P26/1000	HFCH-P26/1200	HFCH-P26/1500
Primary nominal rms current	I_{PN}	200A	400A	500A	600A	800A	1000A	1200A	1500A
Primary current, measuring range	I_{PM}	±600A	±1200A	±1500A	±1800A	±2400A	±2500A	±2500A	±2500A
Rated output voltage	V_{OUT}	±4V±0.04V(RL=10kΩ) @±IPN, T=25℃							
Electrical offset voltage	V_{OE}	≤±20 mV@IP=0, T=25℃							
Magnetic offset voltage	V_{OM}	≤±10 mV@IP→0, T=25℃							
Error	X	≤±1% @ IPN							
Linearity error	εL	≤±1% @ IPN							
Temperature coefficient of V_{OE}	TCV_{OE}	≤±1 mV/K（-40℃ ~ 80℃）							
Temperature coefficient of V_{OE}	TCV_{OE}	≤±1.5 mV/K（80℃ ~ 105℃）							
Temperature coefficient of V_{OUT}	TCV_{out}	＜±0.1 %/K							
Response time	Tr	≥5 μs							
Frequency bandwidth (-3 dB)	BW	DC---25kHz							
Output internal resistance	R_{OUT}	100Ω±5Ω							
Load resistance	R_L	＞10 kΩ							
Supply voltage (±5 %)	T_S	+15V							
Current consumption@ +5 V	I_C	＜20mA							
Operating temperature	T_A	-40℃ ~ 105℃							
Storage temperature	T_S	-40℃ ~ 105℃							

INSULATION COORDINATION

Insulation resistance	R_{INS}	DC500V, ＞1000MΩ
Insulation strength	U_d	4.9kVa.c.,50/60Hz,1min
Impulse withstand voltage 1.2/50 μs	V_{NI}	＞9.9 KV
Clearance	d_{CI}	11 mm
Creepage distance	d_{CP}	11 mm

Notes：1) Recommended fastening torque1.2 N·m.
2) V_{OUT} is positive when I_P flows in the direction of the arrow.
3) Primary conductor temperature ＜ 105 °C.
4) The primary busbar fixed in the center of aperture is recommended. The position of busbar has impact on the accuracy of transducer.

ORDERING INFORMATION

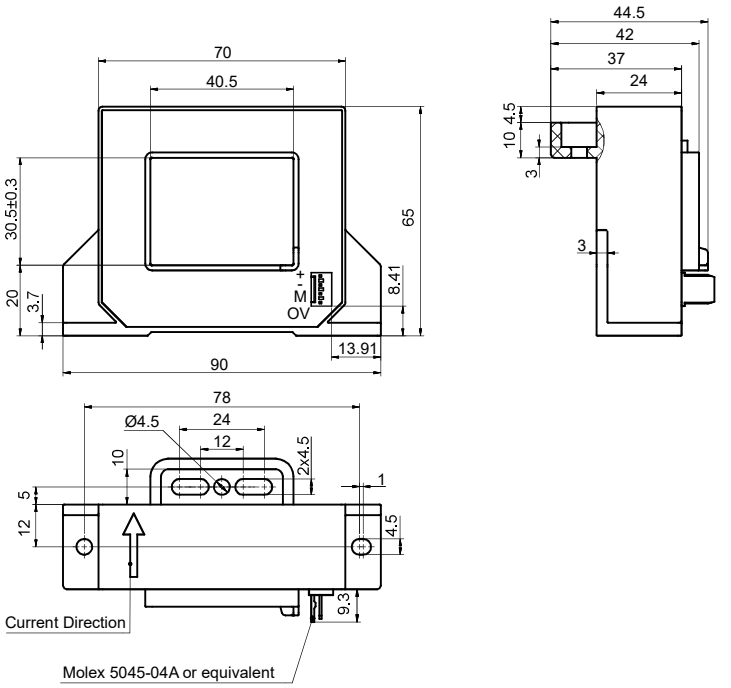
	HFCH	-P	26	/□□□	-V	4	-D	15	(XXX)
Product Part NO.	**CH:**Hall effect sensor								
Working Principle	**P:** Open Loop Sensor								
Sequence number	**26:** 26								
Nominal current	**200:**200A **400:**400A **500:**500A **600:**600A **800:**800A **1000:**1000A **1200:**1200A **1500:**1500A								
Output method	**V:** Voltage output								
Typical output value	**4:** 4V								
Operating Voltage Mode	**D:** Dual power supplies								
Typical operating voltage	**15:** 15VDC								
Special code[1)]	**XXX:** Customer special requirement								

Notes: 1) The customer special requirement express as special code after evaluating by Hongfa.

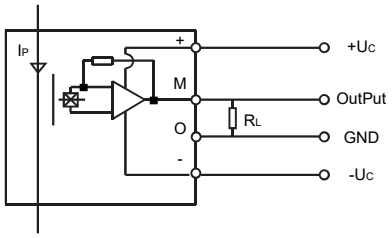
OUTLINE DIMENSIONS, WIRING DIAGRAM

Unit: mm

Outline Dimensions



Wiring Diagram



Notes:

+	(+15V)
-	(-15V)
M	V_{out}
O	GND

NOTES:

1) To avoid using current transformer under strong magnetic field, the external magnetic field will cause the accuracy of current transformer to change.
2) We could not evaluate all the performance and all the parameters for every possible application field and environment.Thus the user should be in a right position to choose the suitable produce for their own application.If there is any query,please contact HKG for the technical service.However,it is the use's responsibility to determine which product should be used only.
3) Operating temperature range in this specification refers to the maximum tolerable temperature range under specific load conditions.
4) To maintain the performances of current transformers, please do not make the current transformer drop or be shocked strongly.
5) All the performance data listed in the datasheet are the initial values tested under standard testing condition.
6) HKG reserves the right to change the product, the customer should confirm this specification before placing the order for the first time, may request us to provide the new specification if necessary.

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