DCbox HALL CURRENT SENSOR DTM-S64

- Efficient, beneficial, and low cost.
- Measurement frequency range: DC~20KHz, low power consumption 10mA.
- Measurement input without loss; Strong anti-interference ability.
- Lightweight structure for easy installation. Opening size 64*16mm.
- DTM-S64 is a current comparator made using the Hall effect principle, suitable for measuring direct current.
- Open structure design, convenient for continuous electrical installation, with screw fixation design at the opening and closing parts, safe and firm to prevent detachment.
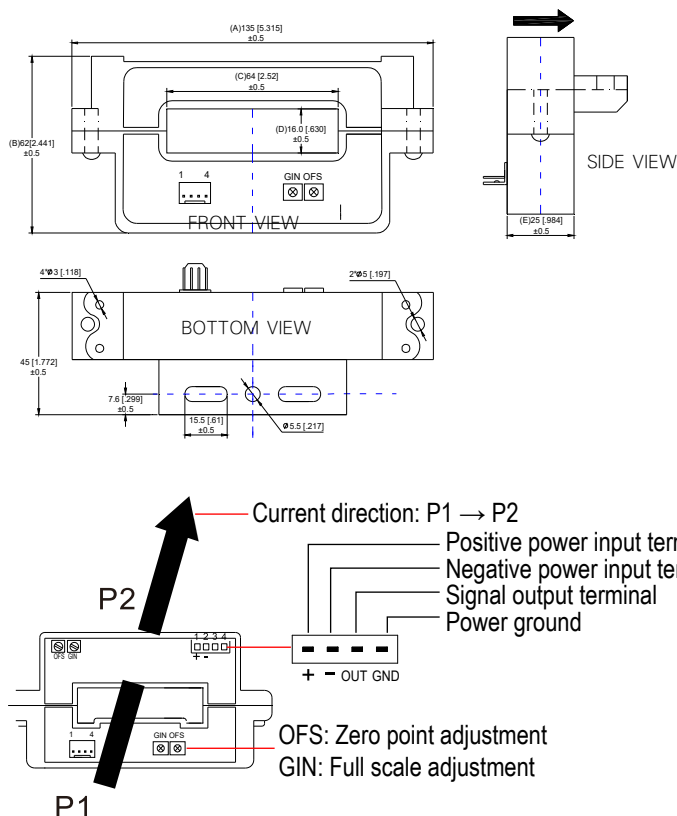
SPECIFICATION

◆ Output signal:	At DC, V outputs 0-4Vdc; Output A: 4-20mAdc Corresponding input current range In
◆ Precision:	<±1.0% F.S. (@ 25℃)
◆ Working power supply:	DC12V(±5%)
◆ Measurement frequency range:	DC~20KHz
◆ Insulation and withstand voltage:	2.5KV effective value/ 60Hz/ 1 min (between input and output circuits)
◆ Zero offset voltage:	<±10mV
◆ Temperature drift:	±1mV/ ℃
◆ Linearity:	<±1% F.S
◆ Reaction time:	< 5μSec
◆ Working temperature:	-10℃~+85℃
◆ Storage temperature:	-25℃~+85℃
◆ Current consumption:	<25mA
◆ Load resistance:	>10KΩ
◆ Weight:	410g(square)
◆ Shell material:	Flame retardant PBT material, grade: UL94-V0

Model	Primary side rated current	Maximum measuring range	Opening size
DTM-S64-300	50A	75A	64*16mm
DTM-S64-400	100A	150A	64*16mm
DTM-S64-500	200A	300A	64*16mm
DTM-S64-600	300A	450A	64*16mm
DTM-S64-1000	400A	600A	64*16mm
DTM-S64-2000	500A	750A	64*16mm

DIMENSION

(A)135 [5.315] ±0.5
(C)64 [2.52] ±0.5
(B)62[2.441] ±0.5
(D)16.0 [.630] ±0.5
1 4   GIN OFS
FRONT VIEW
SIDE VIEW
(E)25 [.984] ±0.5

4*Ø3 [.118]   2*Ø5 [.197]
BOTTOM VIEW
45 [1.772] ±0.5
7.6 [.299] ±0.5
15.5 [.61] ±0.5
Ø5.5 [.217]

Current direction: P1 → P2
P2
Positive power input terminal
Negative power input terminal
Signal output terminal
Power ground
+ − OUT GND
P1
OFS: Zero point adjustment
GIN: Full scale adjustment

ORDER INFORMATION

DTM- [Code1] 64 - [Code2] - [Code3]

Code1	Type	Code2	Measure Range	Code2	Measure Range	Code3	Output Signal
S	Square	300	DC0~300A	600	DC0~600A	V	0~4Vdc
		400	DC0~400A	1000	DC0~1000A	A	4~20mAdc
		500	DC0~500A	2000	DC/AC 0~2000A		

WORKING PRINCIPLE

Primary Current Ip   Isolated Output Voltage Vout
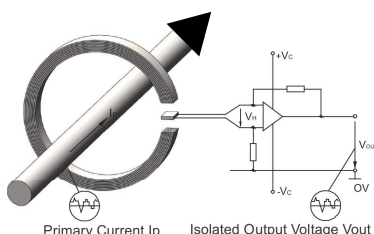
The magnetic flux generated by the primary current IP is concentrated in the magnetic flux, detection at the air gap using a Hall comparator.
The output of the Hall device is processed at the sensor output end can accurately reflect the current changes on the primary side.