DCbox HALL CURRENT SENSOR DTM-021

- 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 φ21mm.
- No low-temperature drift, strong current overload capacity.
- DTM-O21 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: V output: DC12V(±5%); A output: DC24V(±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: 75g(round)
- ♦ Shell material: Flame retardant PBT material, grade: UL94-V0

Model	Primary side rated current	Maximum measuring range	Opening size
DTM-O21-050	50A	75A	Φ 21
DTM-O21-100	100A	150A	Φ 21
DTM-O21-200	200A	300A	Φ 21
DTM-O21-300	300A	450A	Φ 21
DTM-O21-400	400A	600A	Φ 21
DTM-O21-500	500A	750A	Φ 21

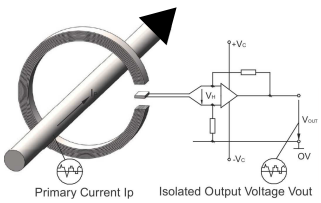
Unit: mm

ORDER INFORMATION

DTM- Code1 21 - Code2 - Code3

Code1	Type	Code2	Measure Range	Code2	Measure Range	Code3	Output Signal
O	Round	50	DC0~50A	300	DC0~300A	V	0~4Vdc (Working Power: 12Vdc)
		100	DC0~100A	400	DC0~400A	A	4~20mAdc (Working Power: 24Vdc)
		200	DC0~200A	500	DC0~500A		

WORKING PRINCIPLE



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.

DIMENSION