TKC-KDQT Series Dismountable Hall Effect Current Transmitter

TKC-KDQT series current sensor is dismountable, which is an open loop device based on the measuring principle of the hall effect,with a galvanic isolation between primary and secondary circuit.It can measure DC current in electrical isolation conditions.

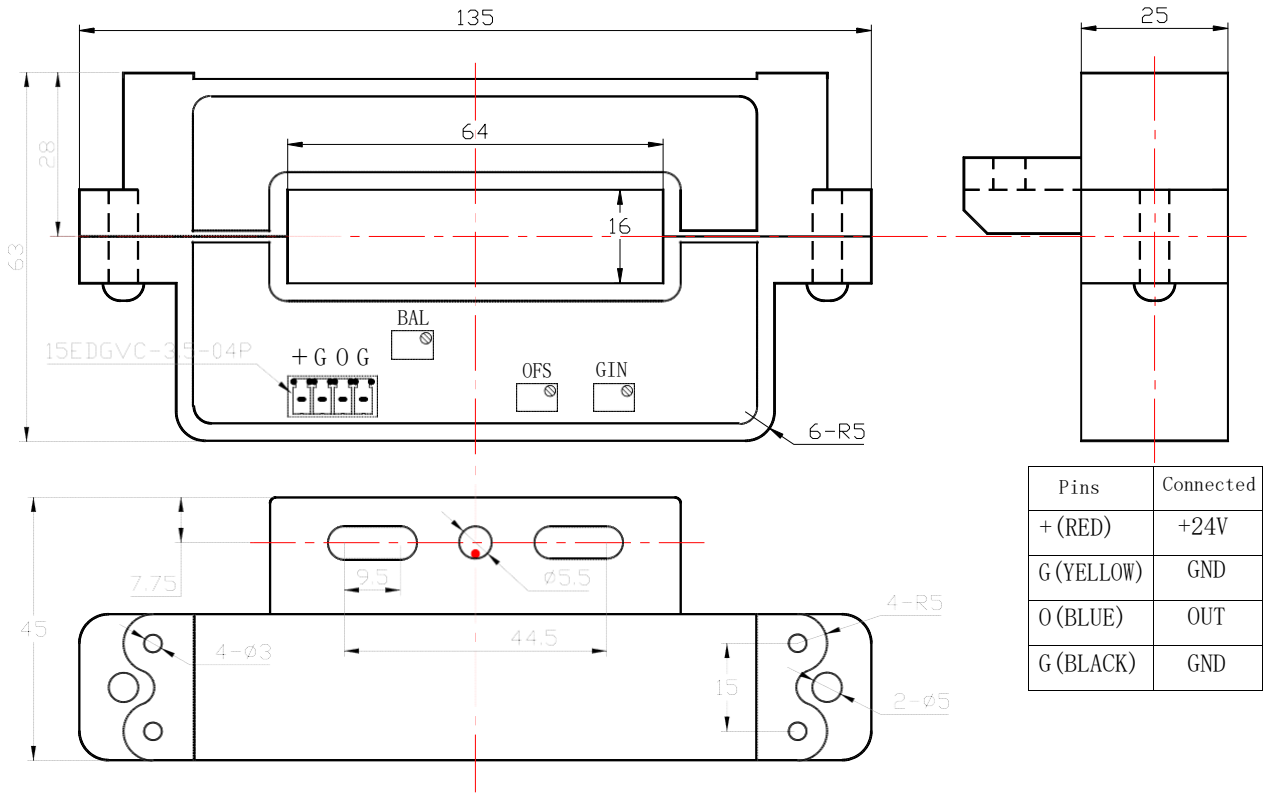
Electrical data (Ta=25℃±5℃, RL=250Ω, CL=10000PF)

Type / Parameter	TKC100 KDQT	TKC300 KDQT	TKC500 KDQT	TKC750 KDQT	KC1000 KDQT	TKC2000 KDQT	Unit
Rated input (Ipn)	±100	±300	±500	±750	±1000	±2000	A
Measure range (Ip)	±200	±600	±1000	±1500	±2000	±3000	A
Rated output (Io DC)	@Ip=0-±Ipn		4～20±1%				mA
Supply voltage	+24V±5.0%						V
Consumption	+35±Io						mA
Linearity	@Ip=0-±Ipn		≤0.5				%FS
Zero current	@Ip=0		+4±0.1				mA
Offset drift	≤±0.01						mA/℃
output drift	≤±0.01						mA/℃
Response time	≤10						mS
Band-width	25						KHZ
Galvanic isolation	@ 50Hz, AC,1min		5.0				KV

Applications

- Variable speed drives
- Uninterruptible power supplies (UPS)
- Wave chopper
- Battery supplied applications
- Welding machine power
- Telecommunication power

Mechanical dimension (for reference only)



Pins	Connected
+ (RED)	+24V
G (YELLOW)	GND
O (BLUE)	OUT
G (BLACK)	GND

Remarks :

1. All dimensions are in mm.
2. General tolerance ±1mm.

Directions for use

1. When the current will be measured goes through a transmitter, the current will be measured at the output end. (Note: The false wiring may result in the damage of the transmitter)
2. The output amplitude of the transmitter can be adjusted according to users' requirements.
3. Custom design in the different rated input current and the output current available.
4. When installing, the overflow hole can be disassembled, it's easy to use.

Standards

UL94-V0

EN60947-1:2004

IEC60950-1:2001

EN50178:1998

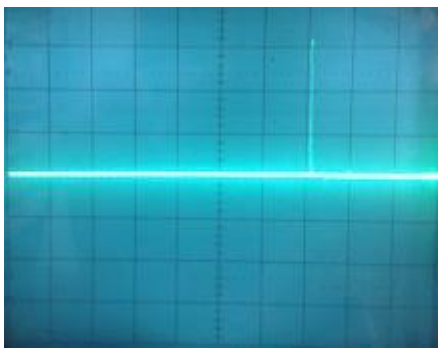
SJ 20790-2000

General date

	Value	Unit	Symbol
Operating temperature	-40 to +105	ºC	TA
Storage temperature	-40 to +125	ºC	TS
Mass(approx)	400	g	M

Characteristics chart

Effects of impulse noise



⇦ (Output voltage)