TKC-KD Series Open Loop Mode Dismountable Hall Effect Current Transmitter

TKC-KD 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 AC pulse and various irregular wave currents in electrical isolation conditions.

Electrical data (Ta=25℃±5℃)

Parameter \ Type	TKC100KD	TKC300KD	TKC500KD	TKC800KD	TKC1000KD	TKC2000KD	Unit
Rated current (Ipn AC)	100	300	500	800	1000	2000	A
Measuring range (Ip AC)	150	450	750	1200	1500	2500	A
Rated output (DC)	@Ip=Ipn	5±1%					V
Supply voltage	±15 ±5%						V
Power Consumption	+35,-20						mA
Offset voltage	@Ip=0	±30					mV
Offset drift	≤±1						mV/℃
output drift	≤±1						mV/℃
Linearity	@Ip=0-±Ipn	≤0.5					%FS
Response time	≤200						mS
Band-width	@-3dB	40～6000					HZ
Galvanic isolation	@ 50Hz, AC,1min	5.0					KV

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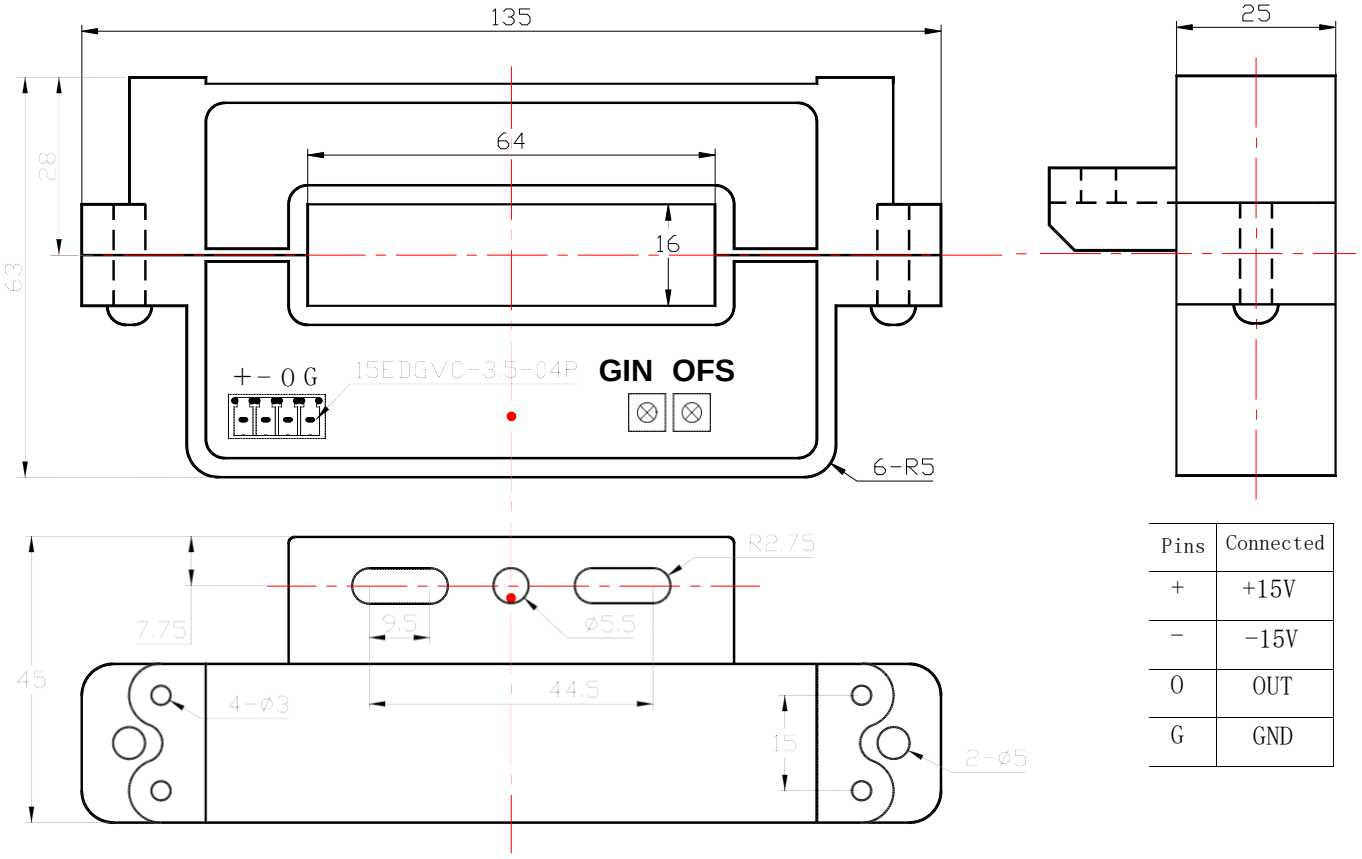
Applications

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

Mechanical dimension (for reference only)



Pins	Connected
+	+15V
−	−15V
O	OUT
G	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 voltage will be measured at the output end. (Note: The false wiring may result in the damage of the transmitter)
2. Customs can adjust output amplitude of the transmitter by needs.
3. Custom design in the different rated input current and the output voltage are 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

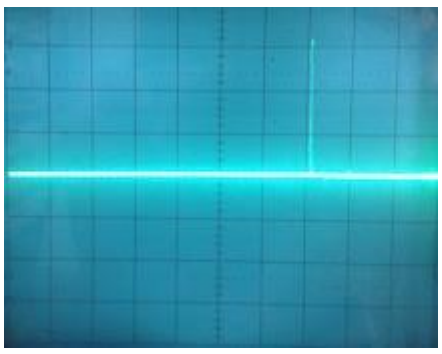
SJ 20790-2000

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)