



TP-12

 Optical Probe for Power Energy Sensing Data Sheet

CE Certification



RoHS Certification



Protection IP54

TP-12 is a mini optical probe scanning probe suitable for pulse sensing, on-line power energy monitoring or solar energy application. TP-12 mini scanning probe is originally designed and manufactured by Tespro China.

TP-12 optical scanning probe can sense both light and IR(Infrared) light pulses emitted by LED, and then convert them to electric pulses. TP-12 is designed with two power supply modes, one is powered by +5V which is supplied by outer power source, and LED indicator on top of probe is enabled in this mode. The other is powered by +3.3V which is suitable for battery power system on very low consumption. LED indicator on top of probe is disabled in this mode.

TP-12 scanning probe is originally designed by Tespro China and supports customized circuits and casings for customers, as well as OEM/ODM support.

Technical Specifications

Category	Items	Features
Power	Power supply	DC 5VDC/DC3.3VDC for option 5V powered,with LED indicator 3.3V powered,with LED indicator disabled
	Output level	TTL, and 1M load to V+ is recommended
	Power consumption	less than 1µA when standby Instant pulse current less than 140µA
Cable & Interface	Cable length	1M in normal,2M/3M for option
	Connector	Bare wires without connector in normal Customized connector is available
Mechanical & Enclosure	Mechanical	PC
Environmental	Environment	Application temperature:-40°C~70°C in normal
Dimensions	Diameter & Height	22mm Diameter/17 mm Height
	Weight	16 gr
Accessory	Probe Fixture	3M double-sided tapes(default) Magnetic/stick-on strips for option
Physical Specifications	Protection Class	IP 54



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