

ITACD-006B (Loop Detector)



Parameter/Model	ITACD-006B
Main Processor	ATMEL ATMEGA series high performance MCU
Coprocessor	ALTERA MAXII series high performance CPLD
Vehicle Detection	When a vehicle passes coil detection zone, it detects traveling condition of the vehicle. Support up to 6 coil simultaneous detection.
Parameter Setup	May dial-up switch to set parameters of vehicle detector.
Status Display	May via indicator, to display status of vehicle detector parameters.
Communication Port	One RS485 port
Trigger Signal Output	Each coil detects corresponding channel's signal output. Output signal high/low level (to be customized) and trigger method are optional. User can select to use RS485 COM method to output trigger signal.
Fault Signal Output	When coil has fault or circuit is open, device will output fault signal.
Coil Input	May simultaneously connect to 6-ch coil inputs.
Indicator	Power indicator, each coil corresponds to a detection indicator and a fault indicator.
Dial Switch	Three 8-bit dial switches, Three 4-bit dial switches
Capture Rate	≥99.9%
Auto Tuning	Vehicle detector supports auto-tuning
Base Frequency Auto Refresh	When no vehicle pass coil, vehicle detector can auto refresh base frequency. Automatically compensate for the effects of climate, 40 °C maximum per hour. That is not a transient ambient temperature should be within an hour 40 °C.
AB Logic Detection	Product supports AB logic detection function
Response Time	Response time<20ms
Oscillation Frequency	Oscillation frequency may be adjusted, internal support 16 statuses for selection.
Sensitivity Adjustable	Each channel's sensitivity can be adjusted within 8 levels.

Existence Time Adjustable	Each channel's existence time can be separately adjusted within two levels as 30s and 60s.
Button	One reset button.
Power Input	DC12V±10% with overvoltage, over current, reverse polarity protection, can safely and stably support power for the device.
Port Protection	Corresponding output port all have over current protection
Consumption	<2W
Working Environment	Working temperature -30 °C ~+70 °C , working humidity 10%~90%
Dimension	independent box 191.5mm*148.0mm*38.0mm
Unit Weight	<1Kg