Eco Friendly Metal Detector – Oscilloscope Traces

By TechKiwi
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TX Circuit:
1. Blue Trace 2V per cm – Arduino TX Pulse (Trigger)
2. Yellow Trace 5V per cm – TX transistor output on Collector

RX Circuit Input:
1. Blue Trace 2V per cm – Arduino TX Pulse (Trigger)
2. Yellow Trace 2V per cm – RX transistor input on Base

RX Circuit Output:
1. Blue Trace 2V per cm – Arduino TX Pulse (Trigger)
2. Yellow Trace 2V per cm – RX transistor output on RX Collector

Channel 1

Note:
1. Two Traces used with Zero Baseline as below
2. Unless shown scale is 2V per cm

Schmitt Trigger effect to clean up pulse:
1. Blue Trace 2V per cm – LM339 Output to Arduino (Trigger)
2. Yellow Trace 2V per cm – RX transistor output on RX Collector