

PRODUCT DESCRIPTION

SPECTEC's 4021SP mag-preamp series is designed to convert low level sinusoidal signals from two sensors into stable square wave pulses. They can be used with all magnetic VR type pickups, allowing greater pickup to target gaps and longer signal transmission distance. Two separate outputs can be chosen for each pickup/coil. It is built to fit Crouse-Hinds GUA16 or similar junction boxes or can be mounted to a panel as needed.

SPECIFICATIONS

- Supply Voltage:** 6 - 36 VDC
- Current Draw:** ≤16mA (each NPN output, 2.2kΩ pull-up)
 ≤36mA (each PNP output, 2.2kΩ pull-down)
- Output Voltage:** See Options Below (R Load >20kΩ)
- Input Sensitivity:** See Options Below
- Max Signal Voltage:** 140 Vp-p (peak to peak)
- Frequency Range:** 3 Hz to 1 kHz at specified sensitivity
 up to 30 kHz at increased signal level
 (depends on sensor, target, gap, temp.)
- Rise/Fall Time:** NPN output: 14 / 21 us (2.2kΩ pull-up)
 PNP output: 2 / 20 us (2.2kΩ pull-down)
 (tested at 30 VDC and 1.1 kHz input speed)
- Temperature Range:** -40° to 85°C (-40° to 185°F)
- Construction:** PVC Plastic housing
 Solid Epoxy Encapsulation

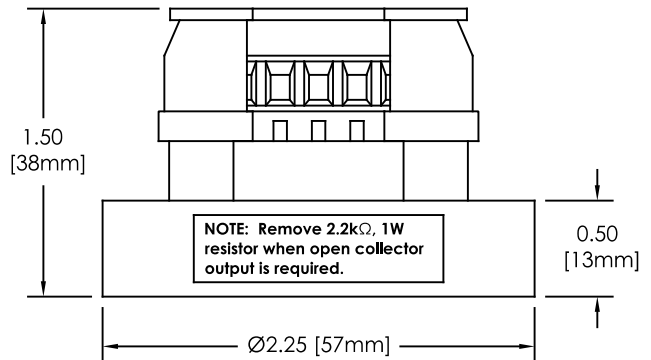
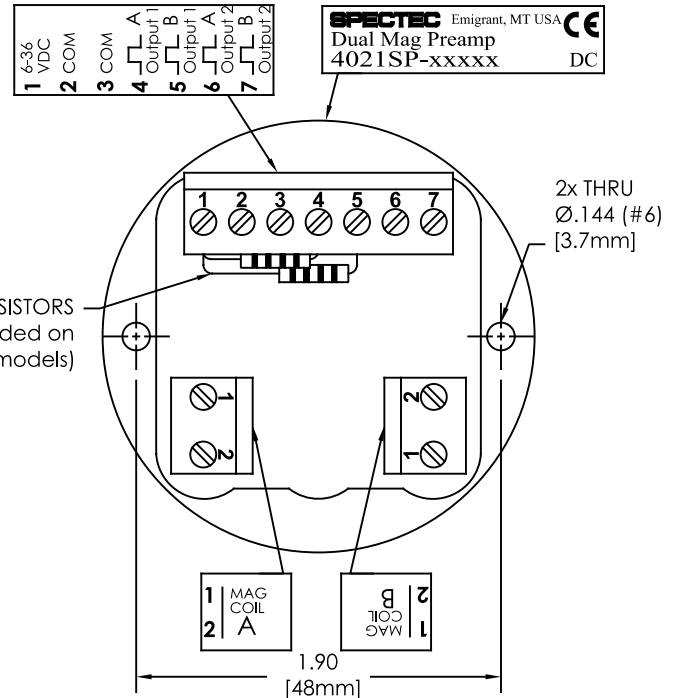
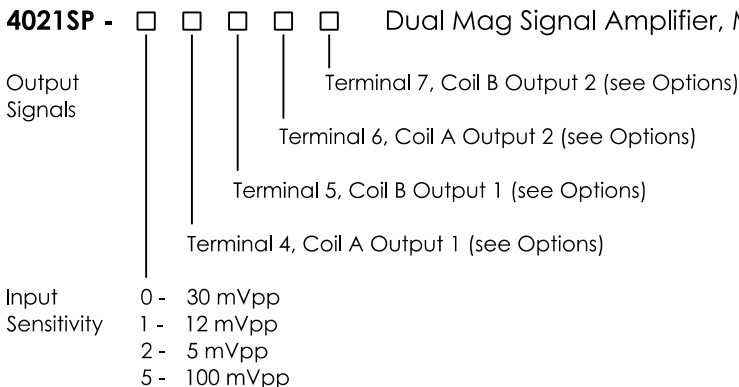
CUSTOMIZATION

Contact Sales for custom configurations, including custom input sensitivity and different sensitivity per coil

OPTIONS

For Junction Boxes, DIN Rail adapters and other adapter hardware see Bulletin 4001

FEATURE SELECTION



TERMINAL CONNECTIONS

- 1 - Supply Voltage (+)
- 2 - Common (-)
- 3 - Common (-) (internally bonded to #2)
- 4 - Coil A, Output Signal 1
- 5 - Coil B, Output Signal 1
- 6 - Coil A, Output Signal 2
- 7 - Coil B, Output Signal 2

Options:

- 0 - 0-12V NPN (internal 2.2kΩ pull-up)
- 1 - 0-10V NPN (internal 2.2kΩ pull-up)
- 2 - 0-5V NPN (internal 2.2kΩ pull-up)
- A - 0-3.3V NPN (internal 2.2kΩ pull-up)
- 3 - 0-Vs NPN (internal 2.2kΩ pull-up) [Supply Tracking]
- 4 - 0-Vs OC NPN [Open Collector] *NOTE
- 6 - 0-Vs PNP (external pull-down may be required)

*NOTE: External 2.2 kOhm, 1W resistor is included for each Open Collector output signal to convert to Supply Tracking if required.