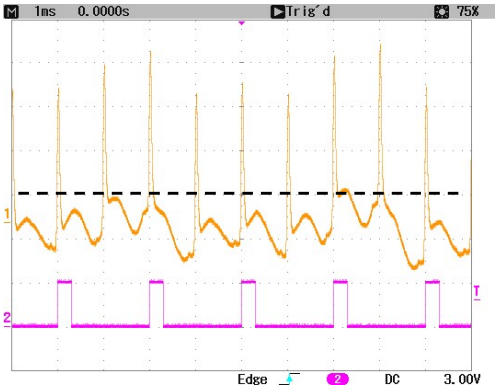
PI Electronics AG

Versatile Trigger Unit

Pulse Shaper for analog Signals



VTU
Trigger Level

CH1:
Sensor Signal

CH2:
Output Signal

When proximity probes such as capacitive or inductive sensors are used as rotation speed sensors, the output signal of often varies depending on their mount and the environmental conditions such as temperature.

The conditioning of those signals in a computer based test setup will make a fast sampling and a rugged A/D converter card necessary. Often a lot of computing power also is used by sensor signal conditioning and is missing in later data acquisition and control applications.

Versatile Trigger Unit converts the output signal of any sensor in to standard 5V and 12V logic signals. The implemented auto scaling mode accelerates setup time and smart processing possibilities help to handle complex input signals.

The optimized user interface provides a very fast and detailed overview on the device status and allows a quick and easy manual operation. Favorite settings can be stored and recalled by pushing a single button.

And last but not least, connect Versatile Trigger Unit by its USB interface to fully control it by your remote application.

Trigger:

Mode:	Auto
Level:	65%
Hysteresis:	1%

Processing:

Dividing Factor:	2
Pulse With:	0.3 ms
Holdoff Time:	0.5 ms

Features

Signal Input:

Common Mode Isolation:	Yes, ±36V max
Input Impedance:	100 kΩ
Max. Sig. Amplitude:	±24 V
Bandwidth:	1 MHz
Min. Amplitude for Trig.:	200 mV

Max. Trigger Rate:

Sin, 5Vpp:	150 kHz
Rect, 5Vpp, Duty C. 50%:	150 kHz
Pulse, 5Vpp, Duty C. 5% :	100 kHz

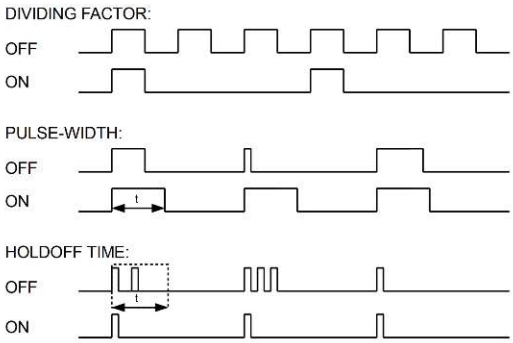
Triggering:

Level Span:	5-95%
Hysteresis:	0-50% (Both rel. to Signal pk-pk or max Input Span)

Processing (Data):

Dividing Factor:	1-999
Pulse Width:	0.01-9.99 ms
Holdoff Time:	0.01-9.99 ms

Processing (Function):



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