Fig. 1 Energy saving by sampling:
This example shows a duty cycle of < 2%.
Sensor ON time is approx. 2.5us.
Example: This reduces power consumption of a K-LC1a from 35mA to 0.7mA.
Sampling rate is approx. 5.5kHz -> max. detectable Doppler frequency is 2.7 kHz corresponding to 60km/h.

Fig. 2 Sampling pulse feed through (no signal):
Sample pulse causes impulse reaction.
We must wait until signal is in steady state again.
Signal can be read immediately before next sampling.

Fig. 3 Doppler signals:
a) 1kHz signal. Window comparator is active low
   Please note the sampling feed through.
b) Doppler signal from approaching person.
   Controller generates timing and output signal