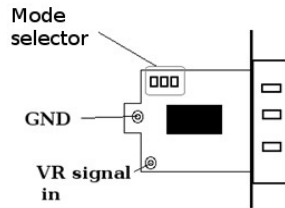


VEMS VR to HALL converter and divider Model: LM1815.4024

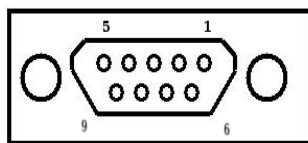


Parameter	Conditions	Min	Typ	Max	Units
Adaptive Input Arming Threshold	Mode 1, Pin 5 = Open adaptive $V_{\text{SIGNAL}} \geq 230\text{mV pk-pk}^{(2)}$ (default)	40	80	90	% ⁽¹⁾
	Mode 2, Pin 5 = V_{CC} $V_{\text{SIGNAL}} \geq 1.0\text{V pk-pk}^{(2)}$ Mode selector: □■		80		% ⁽¹⁾
	Mode 3, Pin 5 = Gnd $V_{\text{SIGNAL}} \geq 150\text{mV pk-pk}^{(2)}$ Mode selector: ■□		80		% ⁽¹⁾

(1) The Min/Typ Max limits are relative to the positive voltage peak seen at V_{IN} Pin 3.

VR signal input: LM1815 circuit triggers at the negative-going zero-crossing of VR signal.

Dsub9 connector pinout:



Dsub 9 feemale
(front view)

- | | | | |
|----|---------------|----|------------|
| 1. | +5V | 6. | Output 1:1 |
| 2. | NotConnected | 7. | Div by 2 |
| 3. | Divider Reset | 8. | Div by 4 |
| 4. | NotConnected | 9. | Div by 8 |
| 5. | GND | | |

Output: (Dsub9 pin6-pin9) 0/5V (logic-level, HALL-type) divided output: lower frequency signal (for ECU wheel-speed input).

Divider Reset: (Dsub9 pin3) connect to GND. Power-users who know what they are doing can connect to 0/5V signal (the counter output stays 0 while reset input is high)

(See LM1815 Datasheet for VR input adaptive hysteresis details.)