



WG216

Zero Power Consumption Sensor (Wiegand sensor)

|| Features ||

- The sensor can automatically generate an electric pulse of about $10\mu s$ without power supply.
- The signal amplitude has nothing to do with the magnetic field changing speed, and it can work at the speed near to zero.
- The signal processing is simple, and it can be directly connected with transistors, comparators, A/D converter, etc.
- The output signal can be remote transmitted by the signal lines, it's suitable for LAN management.
- No mechanic contact, no spark, is a kind of intrinsic safety devices.
- Wide operating temperature range, strong environmental adaptability and long service life.

|| Performance Index ||

Name		Symbol	Value	Unit
Excitation Strength	Min.	B	4	mT
	Typ.		5 - 7	
	Max.		10	
Pulse signal amplitude		V_0	≥ 1.5	V
Pulse width (in the location of 1V)		τ	5 - 10	μS
DC internal resistance		R_0	850 - 1250	Ω
Operating frequency	Min.	f	0	kHz
	Max.		10	
Operating Temp.		T	-40 - 100	$^{\circ}C$
Outline Dimension and Typical installation			See the figure	
Package			Plastic shell, Epoxy potting	
External lead			Resistance to high temperature soft wire	

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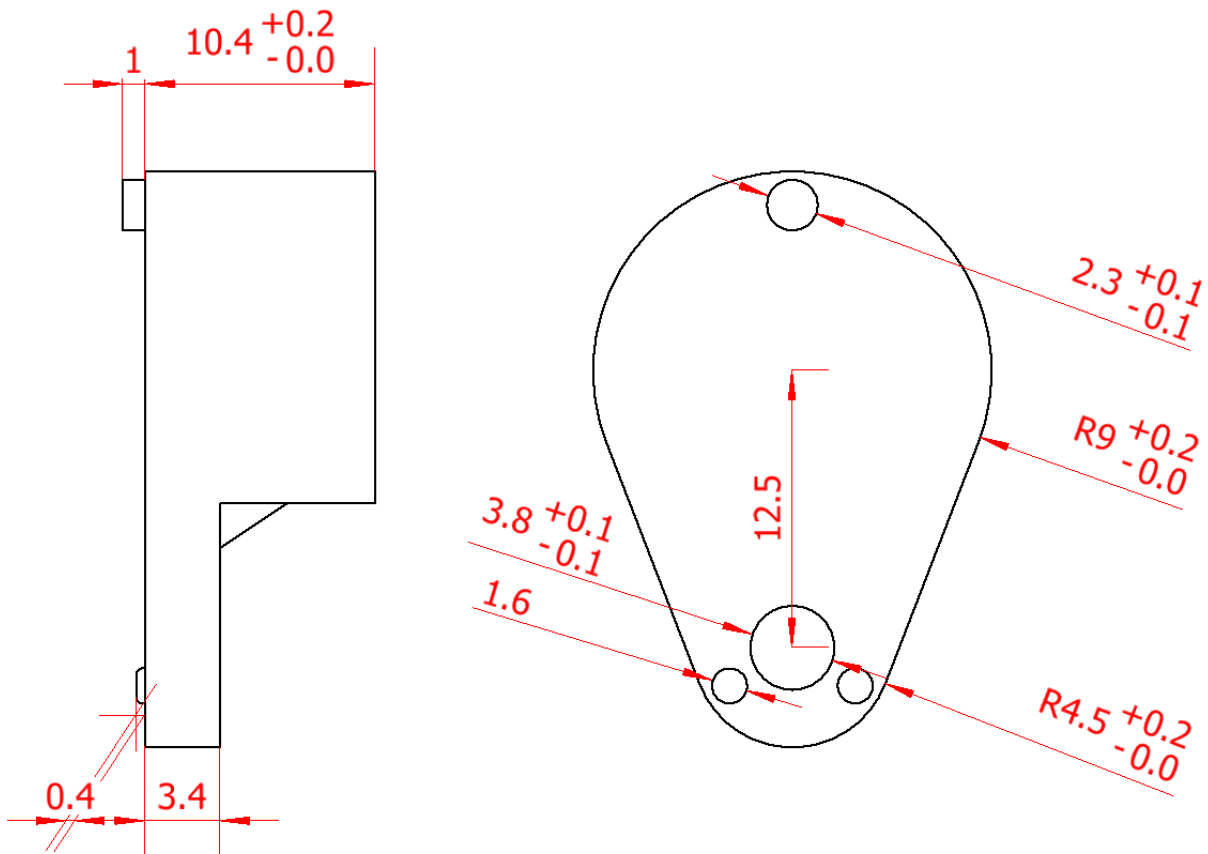
|| Application ||

Rotation counting: water flow meter

Electronic switches: explosion-proof switches, automobile ignition switches, etc.

|| Dimension ||

Unit: mm

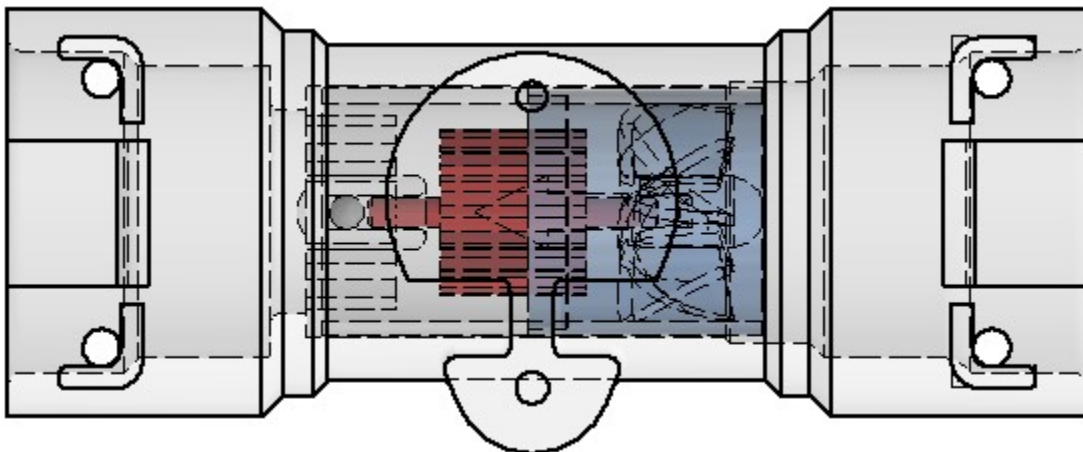


|| Note ||

Do not use strong magnets to attract or approach the sensor.

Choose any one of the two lead wires of the sensor to connect to GND of the control board circuit to reduce external interference.

|| Installation ||



The sensor should be close to the magnetic steel rotor as far as possible, the distance is $\leq 10\text{mm}$.

The rotor center cross-section is in the same plane as the sensor center cross-section.

The vertical distance from the center of the positioning point at the bottom of the sensor to the centerline of the rotor along the bottom plane of the sensor is 7.5mm.

|| Waveform ||

