

## CNG201C & CNG206C Optical Sensor Gauge

### 1. General description:

General Specifications	
Sensor Type	Optical sensor
Over Pressure	520bar*20min
Burst Pressure	>1000bar
Testing Pressure	400bar
Working Pressure	200bar
Leakage Rate	<1/100,000
Calibration	accuracy 1.6% F.S.
Working Temperature	-40~120°C
Durability	>80,000 cycles
Thread	1/4"BSP, M14*1.5, M12*1.5
Certification	ECE-R110
Water Proof	IP65
Body Material	Steel
Connector Type	XH-3P



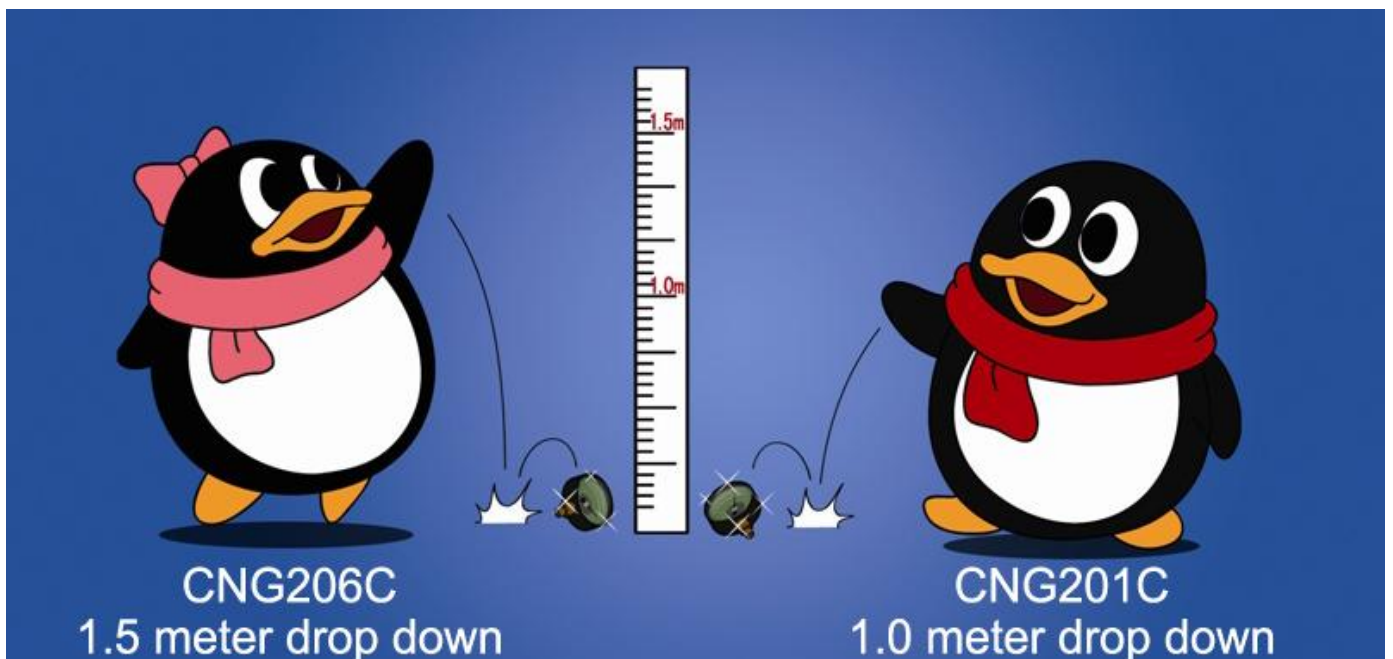
CNG201C is a optical sensor gauge for CNG application, the signal output is in step type, mechanical accuracy is  $\pm 1.6\%$ , electric output accuracy is  $\pm 2.5\%$ . This type of sensor gauge is working with LED switches, or other systems which can treat point signal in volt or resistance.

Supported by high production technologies, our sensor gauges have good performance under vibration, and almost none leakage occurred.

CNG206C has same character as CNG201C but CNG206C is better in anti-vibration and durability.

Durability of this type gauge is upto 80,000 cycles.

### Main difference between CNG201C and CNG206C:



## 2. Input protection resistance:

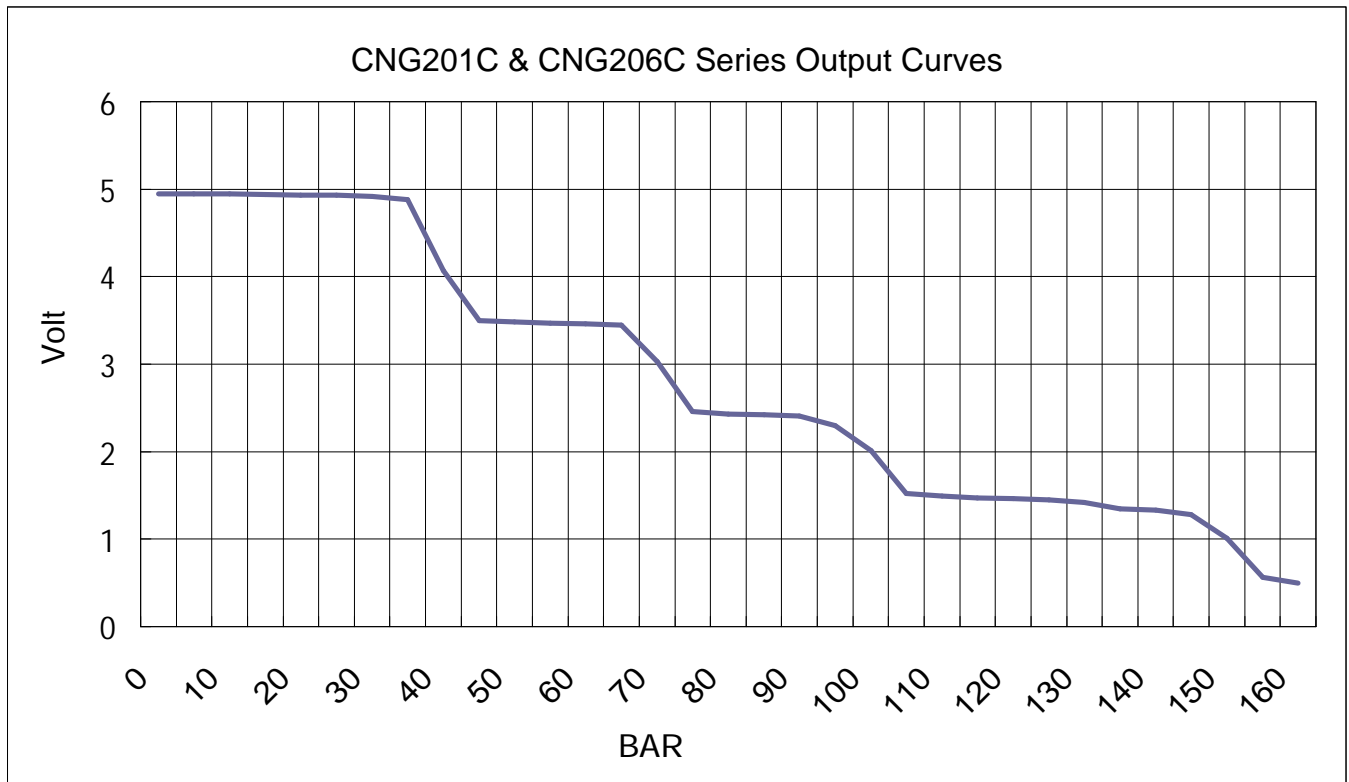
Below table lists the protection resistor installed on the PCB:

Products	Protection Resistor Installed	Extra protection resistance
CNG201A, CNG206A, CNG201C-AGV, CNG206C-AGV	0 $\Omega$	min 150 $\Omega$ ~ max 300 $\Omega$
CNG201C, CNG201C-F, CNG206C, CNG206C-F, CNG201C-NGV	150 $\Omega$	min 0 $\Omega$ ~ max 150 $\Omega$
CNG201A-371, CNG201C-371, CNG201C-F2, CNG201C-F3	470 $\Omega$	max 0 $\Omega$

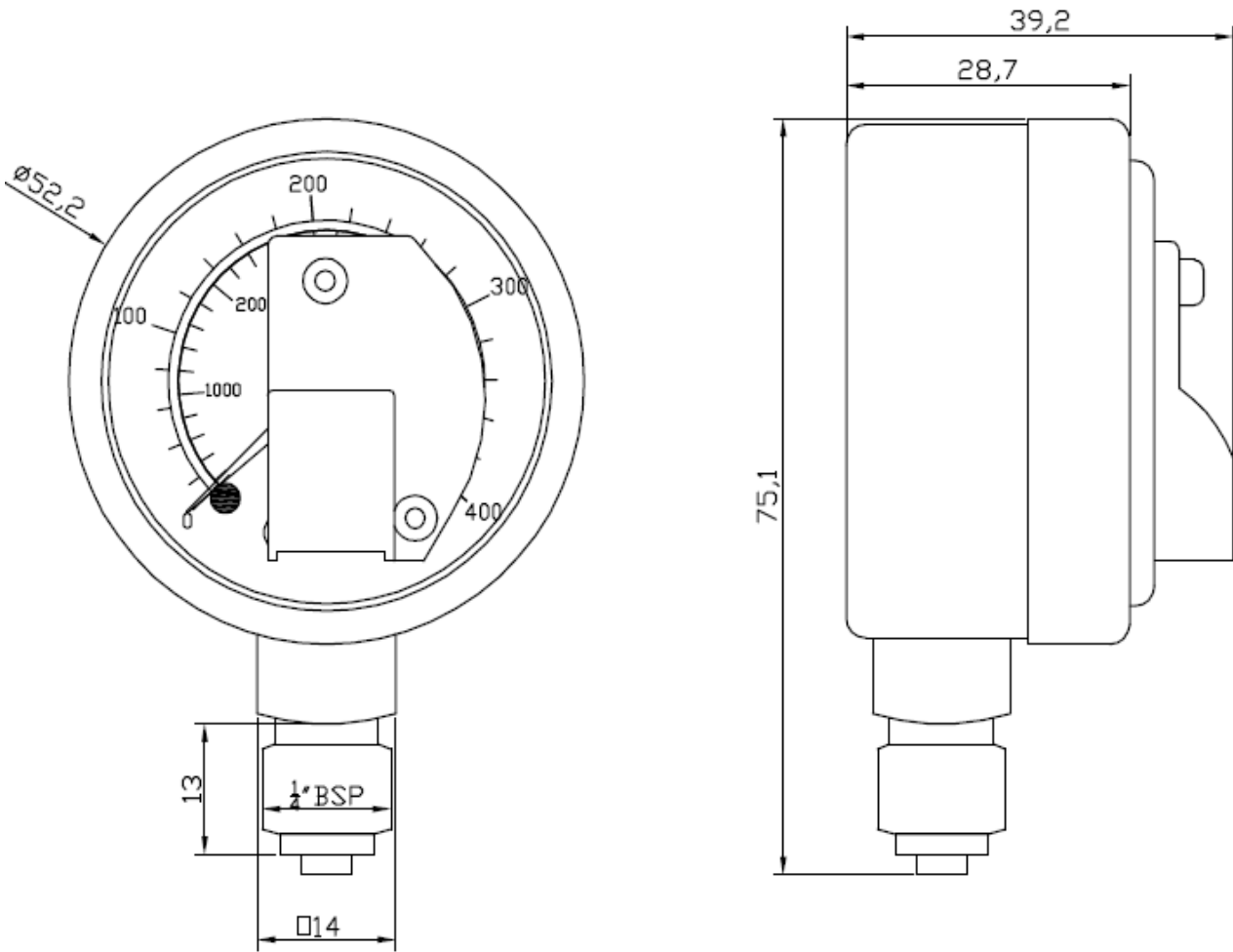
## 3. Output specifications:

Input and output of this sensor gauge can be made according to customer's requirements, usually input is 5v and 12v, outputs are covering most applications in the world, as below:

Suffix	Input	Typical Output				Remark
		40 $\pm$ 10bar	70 $\pm$ 10bar	110 $\pm$ 10bar	150 $\pm$ 10bar	
None	+5V	4v	3v	2v	1v	resistance output, need 12K $\Omega$ deviding resistance to convert to volt
-371	+12V	9.6v	7.2v	4.8v	2.4v	resistance output, need 12K $\Omega$ deviding resistance to convert to volt
-F	+5V	1v	2v	3v	4v	resistance output, need 10K $\Omega$ deviding resistance to convert to volt
-F2	+12V	1v	2v	3v	4v	resistance output, need 4.7K $\Omega$ deviding resistance to convert to volt
-F3	+12V	1v	2v	3v	4v	4.7K $\Omega$ deviding resistance installed inside the sensor, exports volt directly



4. Drawing of the sensor gauge:



Wiring Instruction	
Green (GRN)	+5v (or +12v, as per model extension)
Black (BLK)	Ground
White (WHT)	Signal