

# SE-1520

For Vehicle and  
Bench Installations

## GASOLINE ENGINE TACHOMETER

Simply clamp the detector(IP-292/3000) around the primary cable of the ignition coil.

Provide anti-noise and stable analog/pulse output by means of input, output and power supply isolation.



**IP-292** ■ Maximum diameter of cord:  $\Phi 10\text{mm}$ (MAX)  
 ■ Operating temperature:  $-40\sim+120^{\circ}\text{C}$   
 Engine rotation detector (optional)



Detect the number of ignition pulses produced in the gasoline engines by clamping the primary cord of the ignition coil.

**IP-3000** ■ Maximum diameter of cord:  $\Phi 5\text{mm}$ (MAX)  
 ■ Operating temperature:  $-40\sim+120^{\circ}\text{C}$   
 Engine rotation detector (optional)

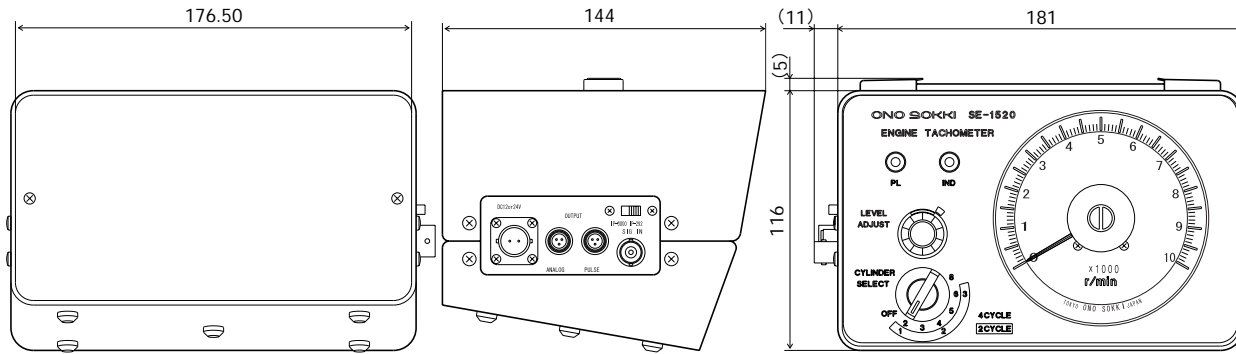


Detect the number of ignition pulses produced in the gasoline engines by clamping the primary cord of the ignition coil or the current cable of the electronic distributor.

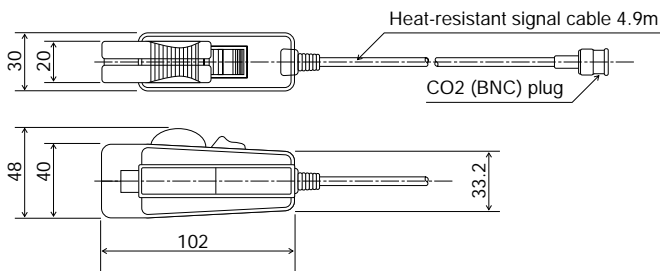
# SE-1520 GASOLINE ENGINE TACHOMETER

SE-1520 Dimensions

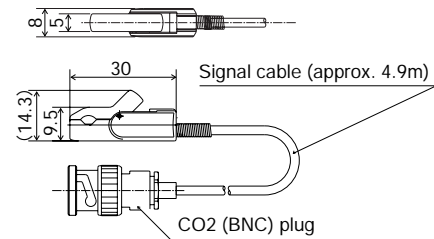
Unit : mm



IP-292 type detector dimensions



IP-3000 type detector dimensions



■ Specifications

**INPUT SECTION**

Detector (optional)	IP-292, IP-3000
Applicable engine	2-cycle engines (1, 2 or 3 cylinders) 4-cycle engines (2, 3, 4, 5, 6 or 8 cylinders)
Measuring range	2-cycle engines 1 or 2 cylinders 500 to 10,000 r/min 3 cylinders 500 to 8,000 r/min 4-cycle engines 2, 3, 4 or 5 cylinders 500 to 10,000 r/min 6 cylinders 500 to 8,000 r/min 8 cylinders 500 to 6,000 r/min

**OUTPUT SECTION**

Analogue output	
Voltage	0 to 10V (with respect to 0 to 10,000 r/min)
Output voltage accuracy	
Zero	±0.2% / full scale (25°C)
Span	±0.3% / full scale (25°C)
Linearity	±0.2% / full scale or less
Ripple	250mVp-p or less (500r/min)
Output impedance	1 ohm or less (25°C)
Response	0.5 sec. or less (10 to 90% of full scale)
Connectable load	10 kohms or more
Pulse output	
Output waveform	Rectangular waveform with approx. 8ms pulse width (every 2 rotations)
Voltage	High level Approx. 5V Low level Approx. 0.3V
Output impedance	4.7 kohms or less

**GENERAL SPECIFICATIONS**

Power supply	12VDC or 24VDC
Current consumption	Approx. 200mA (when operating on 12VDC)
Operating temperature range	0°C to +40°C
Storage temperature range	-10°C to +60°C
Weight	Approx. 1.4 kgs
Dimensions	181(W) × 121(H) × 144(D)mm
Accessories	Analog output signal cable (1.9m) × 1 Pulse output signal cable (1.9m) × 1 Power cable(3.4m) × 1

**DISPLAY**

Indicator	Class 1.5 100 mm wide angle meter
Measuring range	0 to 10,000 r/min (100 r/min per 1 scale)

**Connectors and manufacturers**

Connector (Manufacturer)	Connector receptacle	Connector plug
ANALOG (Tajimi Electronics)	RO3-R3F	RO3-PB3M
PULSE (Tajimi Electronics)	RO3-R3F	RO3-PB3M
POWER SUPPLY (Hirose Electric)	RM12BRB-2P	RM12BPE-2S

\*Outer appearance and specifications are subject to change without prior notice.

URL : <http://www.onosokki.co.jp/English/english.htm>

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