

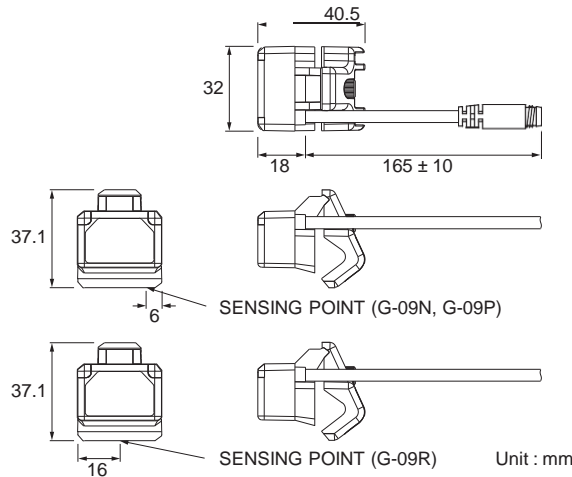
# G-09 SERIES

# Magnetic Sensor



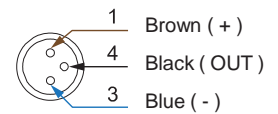
## Dimensions

G-09R, G-09N, G-09P /  
G-09R-QD, G-09N-QD, G-09P-QD

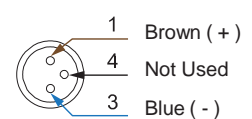


## QD Pinout

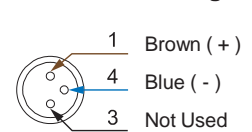
### 3 wire QD wiring



### 2 wire QD wiring



### 2 wire EQD wiring



## Specifications

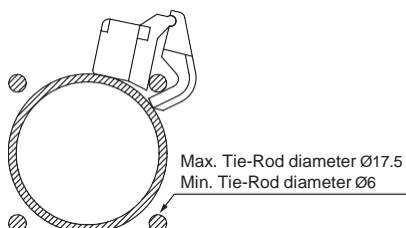
MODEL	G-09R	G-09N	G-09P
<b>Connect Diagram</b>			
<b>Characteristics</b>			
<b>Wiring Method</b>	2-Wire Type	3-Wire Type	
<b>Switching Logic</b>	SPST, Normally Open	Solid State Output, Normally Open	
<b>Sensor Type</b>	Reed Switch	NPN Current Sinking	PNP Current Sourcing
<b>Operating Voltage</b>	5 ~ 240 V DC / AC	5 ~ 30 V DC	
<b>Switching Current</b>		1 Amp. max.	
<b>Contact Rating ※1</b>		30 W max.	
<b>Current Consumption ※2</b>	-	42 mA @ 24 V DC max.	30 mA @ 24 V DC max.
<b>Voltage Drop ※2</b>	3.5 V max.	1.5 V @ 0.5 A max.	
<b>Leakage Current ※2</b>	-	0.01 mA max.	
<b>Indicator</b>	Red LED	Power : Green LED , Output : Red LED	
<b>Lead Wire</b>	Ø4.5 PVC - 24 AWG ( 0.22 mm <sup>2</sup> ) - 2 cores	Ø4.5 PVC - 24 AWG ( 0.22 mm <sup>2</sup> ) - 3 cores	
<b>Operating Frequency</b>	200 Hz	1000 Hz	
<b>Magnet Requirement ※2, 3</b>	80 Gauss	40 Gauss	
<b>Temperature Range</b>		-10 ~ 70 °C	
<b>Shock ※4</b>	30 G	50 G	
<b>Vibration ※5</b>		9 G	
<b>Enclosure</b>		IEC 60529 IP67	
<b>Protection Circuit ※6</b>	4	3, 4	

### NOTE

- ※1 : WARNING : Never exceed rating ( Watt = Voltage × Amperage ). Permanent damage to sensor will occur.
- ※2 : It bases on conditions of voltage 24 V DC, ambient temp. 25 °C and 2 meters cable of sensor. Voltage drop increases in pace with cable length.
- ※3 : Measuring standard target : Ø15.5 × Ø8 × 5t ( Anisotropy rubber magnet )

- ※4 : Sin wave / X, Y, Z 3 directions / 3 times each direction / 11 ms each time.
- ※5 : Double amplitude 1.5 mm / 10 Hz ~ 55 Hz ~ 10 Hz ( Sweep 1 min ) / X, Y, Z 3 directions / 1 hour each time.
- ※6 : 1 = None / 2 = Short-circuit / 3 = Power Source Reverse polarity / 4 = Surge Suppression

## Bracket



Unit: mm

### Gentle Automatic Solution Sdn Bhd

No.36, Jalan Industri USJ 1/13, Taman Perindustrian USJ 1, 47600 Subang Jaya, Selangor.  
TEL: 603-8023 7743 / 8743 FAX: 603-8023 9743

✉ sales@gentle.com.my

🌐 <http://www.gentle.com.my>

📞 <https://wa.me/60122738827>

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