

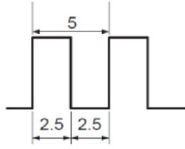
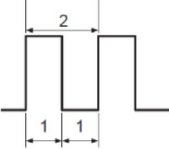


CM3-SP02HSC



CM3-SP02HSD

■ **Functional**

CIMON Part Number		CM3-SP02HSC	CM3-SP02HSD
I/O Points		16 points	
Sensor		2 channels	
Count Input Signal	Phase	1 Phase input/2 Phase input	
	Level ( $\phi A, \phi B$ )	5/12/24 V DC 2–5 mA	RS-422A Line Drive (5 V) /HTL Line Drive (24 V)
	Types	PNP Encoder (-Common)	Line Drive (Differential Input)
Count	Speed	200 kpps	RS-422A Line Driver: 500 kpps HTL Line Driver: 250 kpps
	Range	32-bit signed binary values (-2147483648—2147483647)	
	Mode	Up/Down Preset Counter + Ring Counter	
	Min. Count Pulse Period ( $\mu S$ ) (Duty ratio 50%)		
Compared Range		32-bit signed binary values	
Output Comparison		Compared value < Present value Compared value = Present value Compared value > Present value	
External Input		5/12/24 V DC 2–5 mA	
External Output		TR (SINK Type) Output 12–24 V	
Power Consumption		90 mA	105 mA

■ **Features**

- Compatible expansion with any PLC-S CPU.
- Covers a wide range of high-speed pulses.
- Support for the quadrature types open-collector and line-drive.
- Linear/Ring counter modes are supported.

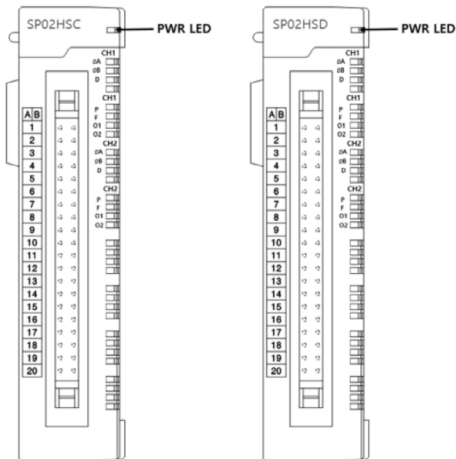
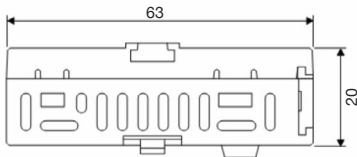
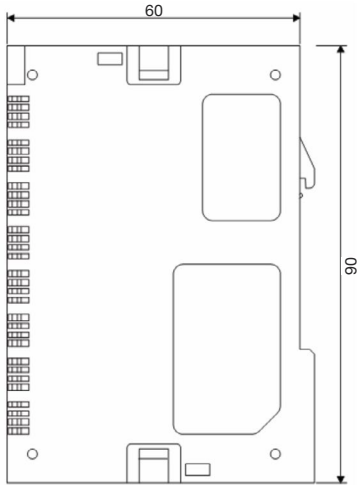
■ **Benefits**

- Diagnostic LEDs.
- Module settings can be manipulated from scan logic.





\*CM3-SP02HSC and CM3-SP02HSD have the same dimensions.  
(Unit: mm)



### Physical

CIMON Part Number	CM3-SP02HSC	CM3-SP02HSD
<b>Product Dimensions (H x W x D)</b>	90 x 20 x 60 mm (3.5 x 0.8 x 2.4 in)	
<b>Product Weight</b>	68.5 g (0.15 lb)	71.2g (0.16lb)

### Environmental

Item	Specification	Standards
<b>Operating Temperature</b>	-10 – +60 °C (+14 – +140 °F)	-
<b>Storage Temperature</b>	-25 – +80 °C (-13 – +176 °F)	-
<b>Operating/Storage Relative Humidity</b>	5 – 95% Non-condensing	-
<b>Shock</b>	15G	IEC 61131-2
<b>Vibration</b>	0.5G - Continuous 1G - Discontinuous	IEC 61131-2
<b>Square Wave Impulse Noise</b>	±2 kV	CIMON Standard
<b>ESD Immunity</b>	±4 kV - Contact Discharges ±8 kV - Air Discharges	IEC 61131-2 IEC 61000-4-2
<b>Radiated Electromagnetic Immunity</b>	80–1000 MHz, 10 V/m	IEC 61131-2 IEC 61000-4-3
<b>Surge Transient Immunity</b>	2 kV - CPU, Power 2 kV - Discrete I/O (VAC) 1 kV - Discrete I/O (VDC) 1 kV - Communication	IEC 61131-2 IEC 61000-4-4