

# MPG - Manual Pulse Generator JOG handwheel

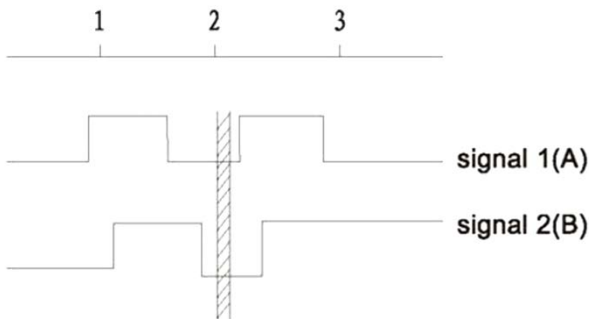
Suitable for manual pulse input type such as NC or milling machinery. High reliability, terminal connection type.  
Power supply: 5V DC, 12V DC.  
Application: Industrial tooling machinery



## TECHNICAL SPECIFICATIONS

### OUTPUT WAVEFORM

90° Output phase difference, CW rotation  
(CW rotation as seen from fit surface).



A leads B clockwise when viewing the encoder shaft end  
Click-stop position falls within hatched area.

ELECTRICAL SPECIFICATION	
Output wave	Square wave
Output signals	A,B, (Line driver output A,Ā,B,B̄, phase)
Current consumption	≤100mA
Response Frequency	0~20KHz
Output phase difference	90° ± 45°
Supply voltage	5VDC, 12 VDC
Signal level	$V_H \geq 85\%V_{CC}$ , $V_L \leq 0.3V$
Number of pulses	100
Output circuit	Open collector NPN, Push pull, Line driver, Voltage
MECHANICAL SPECIFICATION	
Signal position	2kind
Speed without sealing	500 rpm
Starting torque w/o sealing	$\leq 2.0 \times 10^{-2} \sim 6.0 \times 10^{-2}$ Nm (+25°C)
Shock resistance	980m/s <sup>2</sup> , 6ms, 2 times each on XYZ
Vibration proof	50m/s <sup>2</sup> , 10~200Hz, 2 hours each on XYZ
Working life	MTBF ≥ 10000h (+25°C, 2000rpm)
Weight	Appr. 740g (incl. 1.5 meter cable)
ENVIRONMENTAL SPECIFICATION	
Working humidity	30~85% (No condensation)
Storage temperature	-30°C ~85°C
Working temperature	-10°C ~70°C
Protection class	IP54

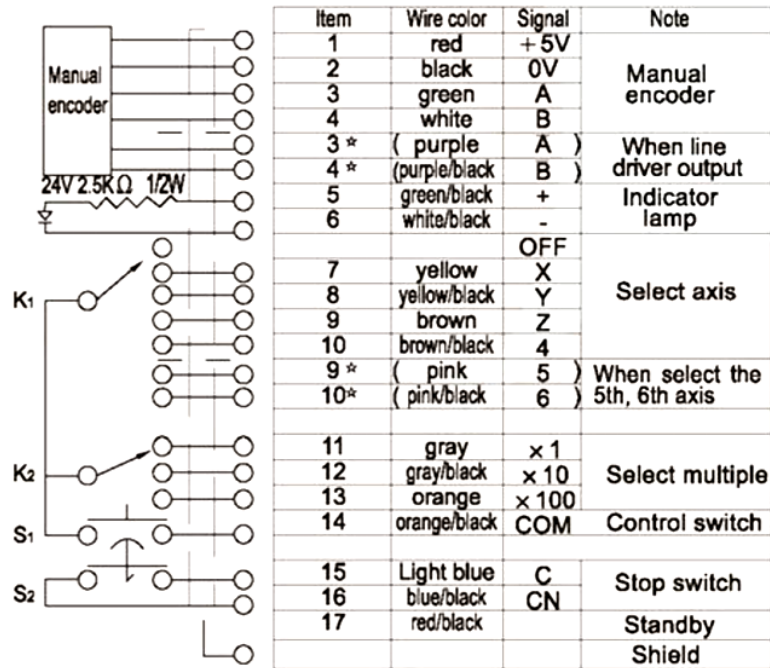
### TERMINAL ASSIGNMENT

ELECTRICAL SPENFICATIONS OF SELECTION SWITCH			
Switch load	0.4VA	Max. voltage	25V
Circuit width	0.1-50mA		
ELECTRICAL SPENFICATIONS OF CONTROL SELECTION			
Connection Point	AC Max. load	AC220VV 0.5A	
	DC Max. load	DC24V1A	
ELECTRICAL SPENFICATIONS OF STOP SWITCH			
Connection Point	AC Max. load	AC220V0.5A	
	DC Max. load	DC30V1A	

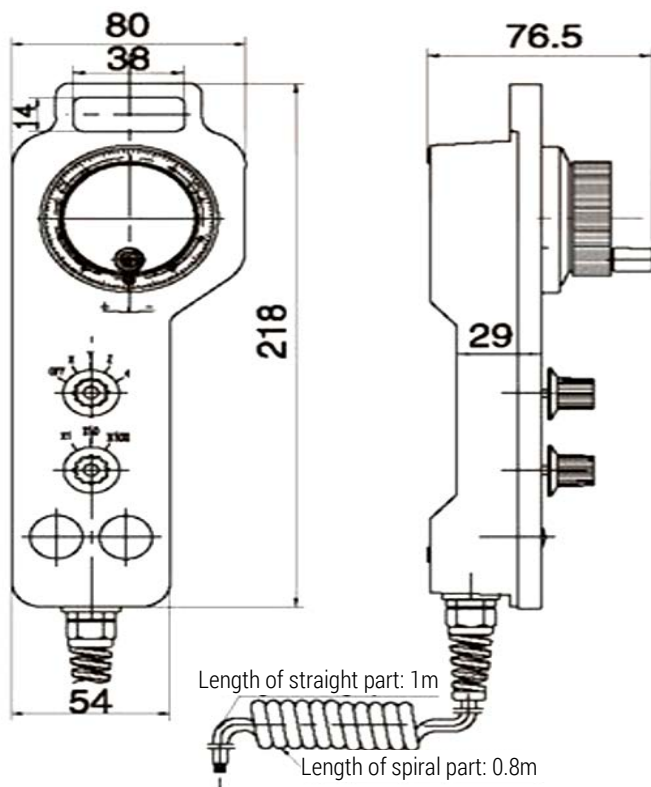
### CODE

<b>ISMM2080</b>	-	<b>001</b>	<b>100</b>	<b>B</b>	-	<b>5</b>	<b>L</b>
Series		Sequence Number	Number of Pulses	Output Signals		Supply Voltage	Output Circuit

Series: ISMM2080, Number of pulses: 100p/r Output Signals: AB,  
Supply Voltage: 5V DC, Output circuit: Line driver, Record: ISMM2080-001-100B-5L



### DIMENSION



In CS-Lab online store on sale in set with CSMIO-MPG module (suitable straight connection plug included) and separately.

[www.cs-lab.eu/en](http://www.cs-lab.eu/en)