

EPG series Manual Pulse Generator (MPG) with built in JOG function

EPG series Manual Pulse Generator is designed with our patented state of the art electronic design technique in Electromagnetic immunity, data storage and PCB layout to offer superior electrical noise immunity compatibility, which is vital for reliable CNC machine applications as there is always very strong electrical noises present in the AC servo system of the CNC. Thanks to the immunity compatibility achieved, the EPG series is 100% reliable enough to replace the traditional mechanical selector switch and offering following extra advantages.

- **With JOG function built in**, offering very easy and convenience help to the operator in the machining setup operations such as tool length setup, part alignments, work datum setup and etc.. The operator no more necessary to shuttle between the tool/machining part and machine console. Give a easy way for your CNC machining setup operation.
- **Totally sealed enclosure - IP64** grade protection against dust, water and oil ingress, extremely durable AUTOTYPE's AUTOTEX F150 polyester film is used to be the membrane in EPG series to offer superior chemical and scratch resistance operation panel. No more possible for coolant, dust, oil or water ingress into the MPG through the installation holes of the mechanical selector switch !!



IP 64

Following two models are currently available in the EPG series Manual Pulse Generator.



1. EPG-101 :

Supply Voltage : **5V DC** input.
 Output : Handwheel Encoder - **5V TTL / RS422**
X/Y/Z/4 and **X1/X10/X100** - Solid State Relay (**DC 24V**)

Compatible CNC controllers : SIEMENS , HEIDENHAIN, FANUC ,
 FAGOR , NUM , LNC , SYNTEC ,
 ESA , D-ELECTRON ,
 KND , GSK , SKY , WASHING , HNC ,
 DASEN, GREAT , D-ELECTRON EASSON ,
 CASNUC,

2. EPG-102 :

Supply Voltage : **12~24V DC** input.
 Output : Handwheel Encoder - **12~24V TTL / RS422**
X/Y/Z/4 and **X1/X10/X100** - Solid State Relay (**DC 24V**)

Compatible CNC controllers : MITSUBISHI

EMC compliance

EPG-101/EPG-102 have been tested by third party laboratory, conforms to relevant standards for electromagnetic compatibility (EMC) as detailed below.

EN 61000-6-2 : Electromagnetic compatibility, Generic Immunity Standard - Industrial Environment.
EN 61000-6-4 : Electromagnetic compatibility, Generic Emission Standard - Industrial Environment.

IEC 61000-6-2 : Electromagnetic compatibility, Generic Immunity Standard - Industrial Environment.
IEC 61000-6-4 : Electromagnetic compatibility, Generic Emission Standard - Industrial Environment.

Full EMC test report is available for download from our WEB site : <http://www.konson-mpg.com>,
 if you need further assistance or enquiry, please TEL our service department at : **+86 756 7511234**.

Signals / Wire Colour

Signal	Wire Colour
COM	Black in Transparent
X axis	White
Y axis	Orange
Z axis	Blue
4 axis	Green
X1	Pink
X10	Light Green
X100	Transparent
V _{DD} (5V / 12~24V)*	Red
V _{SS} (0V)	Black
Encoder A+	Yellow
Encoder A-	Brown
Encoder B+	Purple
Encoder B-	Grey
Emergency * - N.C.	Light Blue
Emergency * - COM	White in Red
Ground Shielding	Copper Wires

* for EPG-101, VDD = 5 V ; for EPG-102, VDD = 12~24V

* Emergency Button Output is Normal Close Output, direct from the Emergency Switch.



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