Manual Pulse Generator (MPG)

A manual pulse generator (MPG) is a device for generating electrical pulses (short bursts of low current) in electronic systems under the control of a human operator (manually). MPGs are used on computer numerically controlled (CNC) machine tools, on some microscopes, and on other devices that use precise component positioning.
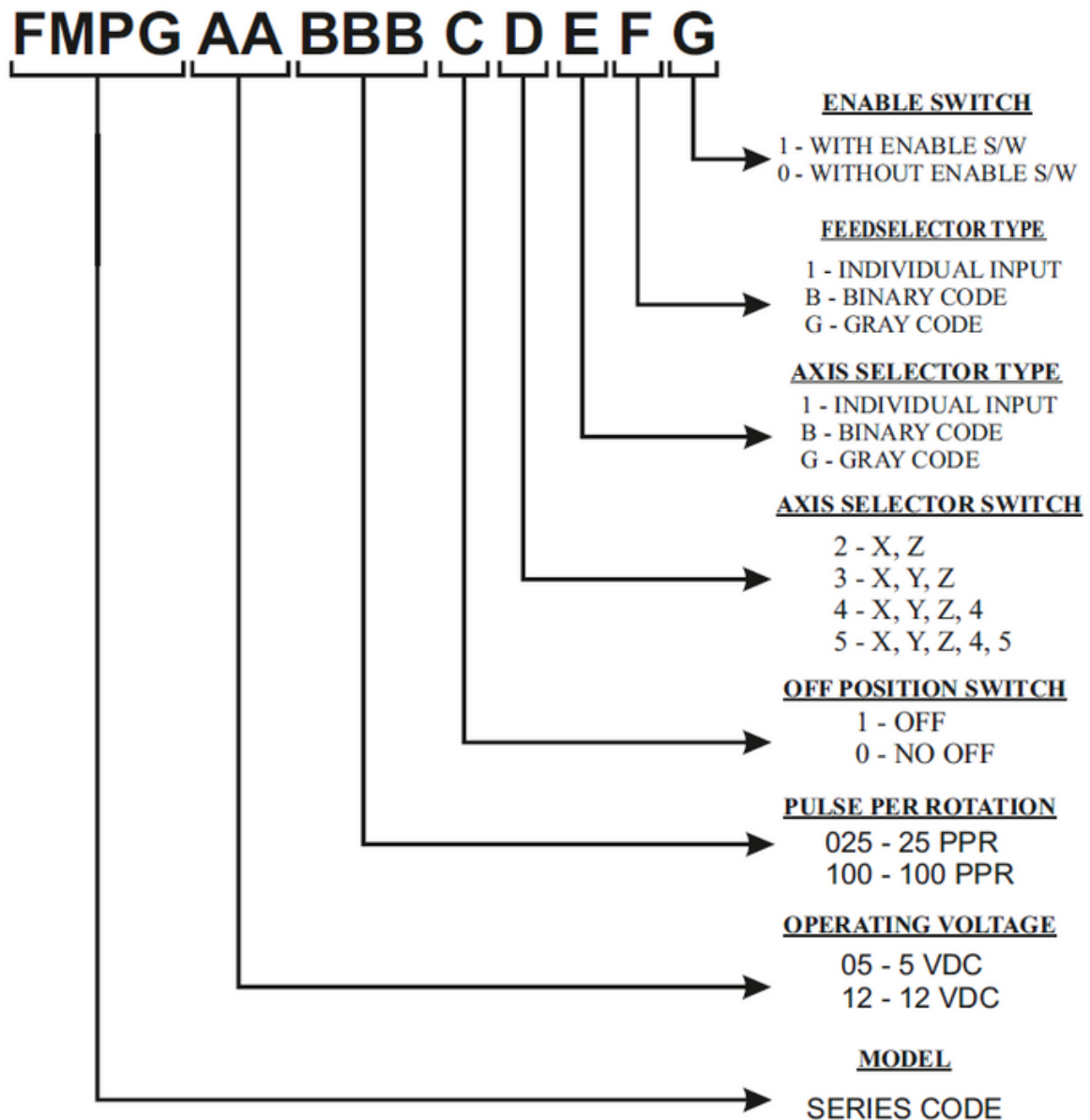
FEATURES

- CNC Controls for Fanuc, Mitsubishi, Siemens.
- Multiplier x1, x10, x100 and axis selector Switches.
- 5v TTL outputs (Point to point).
- IP 65, enclosure protection.
- Std. 2 or 3mtr. extended spiral cable.
- Magnetic back cover.
- LED indication available.

ORDERING INFORMATION

FMPG AA BBB C D E F G

ENABLE SWITCH
1 - WITH ENABLE S/W
0 - WITHOUT ENABLE S/W

FEEDSELECTOR TYPE
1 - INDIVIDUAL INPUT
B - BINARY CODE
G - GRAY CODE

AXIS SELECTOR TYPE
1 - INDIVIDUAL INPUT
B - BINARY CODE
G - GRAY CODE

AXIS SELECTOR SWITCH
2 - X, Z
3 - X, Y, Z
4 - X, Y, Z, 4
5 - X, Y, Z, 4, 5

OFF POSITION SWITCH
1 - OFF
0 - NO OFF

PULSE PER ROTATION
025 - 25 PPR
100 - 100 PPR

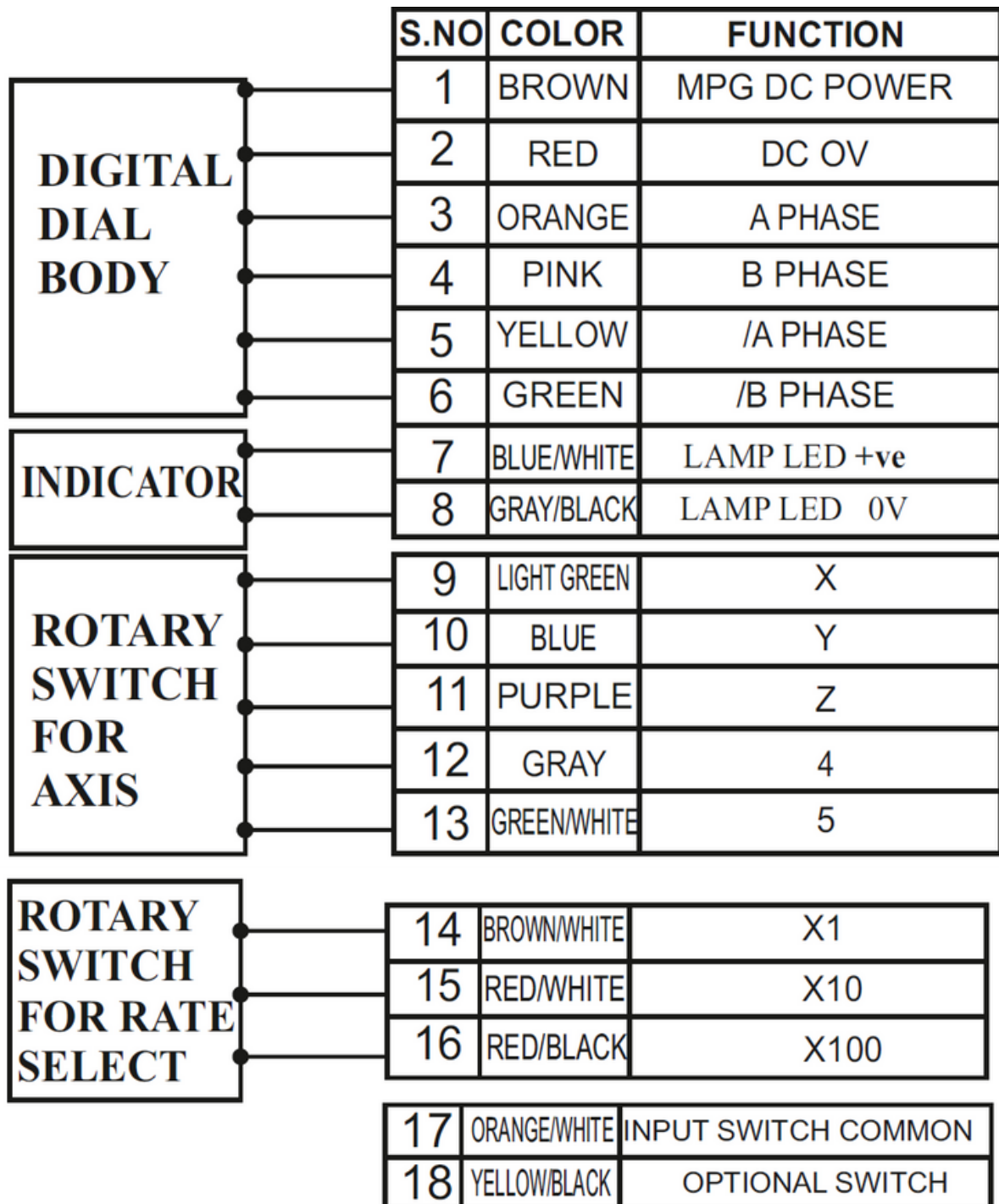**OPERATING VOLTAGE**
05 - 5 VDC
12 - 12 VDC

MODEL
SERIES CODE

ORDERING EXAMPLE

If you need to order a MPG of 12v input with 25 pulse per rotation with off position enabled and rotatory Axes selector switch with 5 axes binary code and multiplier selector switch with gray code. For the above mentioned information the ordering code is as follows:

FMPG1202505BG0

Connection Diagram: Future Cable Wiring Color Coding
FMPG Series

S.NO	COLOR	FUNCTION
1	BROWN	MPG DC POWER
2	RED	DC OV
3	ORANGE	A PHASE
4	PINK	B PHASE
5	YELLOW	/A PHASE
6	GREEN	/B PHASE
7	BLUE/WHITE	LAMP LED +ve
8	GRAY/BLACK	LAMP LED 0V
9	LIGHT GREEN	X
10	BLUE	Y
11	PURPLE	Z
12	GRAY	4
13	GREEN/WHITE	5
14	BROWN/WHITE	X1
15	RED/WHITE	X10
16	RED/BLACK	X100
17	ORANGE/WHITE	INPUT SWITCH COMMON
18	YELLOW/BLACK	OPTIONAL SWITCH

DIGITAL DIAL BODY

INDICATOR

ROTARY SWITCH FOR AXIS

ROTARY SWITCH FOR RATE SELECT

Connection Diagram: Lapp Cable Wiring Color Coding
FMPG Series

DIGITAL DIAL BODY

INDICATOR

ROTARY SWITCH FOR AXIS

ROTARY SWITCH FOR RATE SELECT

S.NO	COLOR	FUNCTION
1	BROWN	MPG DC POWER
2	RED	DC OV
3	WHITE	A PHASE
4	PINK	B PHASE
5	YELLOW	/A PHASE
6	GREEN	/B PHASE
7	YELLOW/BROWN	LAMP LED +ve
8	YELLOW/WHITE	LAMP LED 0V
9	BLACK	X
10	BLUE	Y
11	PURPLE	Z
12	GRAY	4
13	GREEN/BROWN	5
14	GRAY/WHITE	X1
15	GRAY/BROWN	X10
16	GRAY/PINK	X100
17	WHITE/ GREEN	INPUT SWITCH COMMON
18	RED/BLUE	OPTIONAL SWITCH
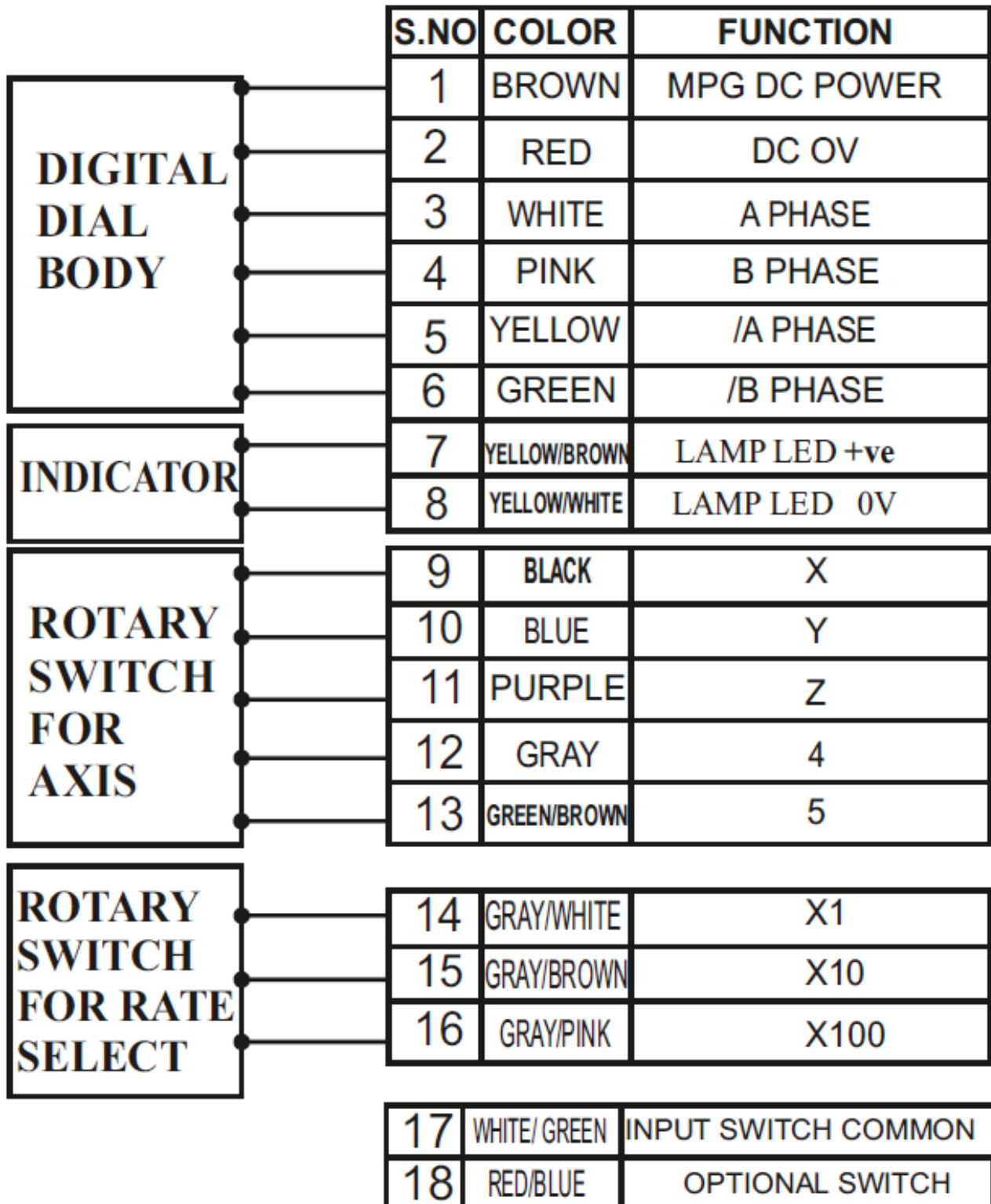
INDIVIDUAL OUTPUTS

AXIS SELECTOR SWITCH CODE:

OFF	0	0	0	0	0
X	0	0	0	0	1
Y	0	0	0	1	0
Z	0	0	1	0	0
4	0	1	0	0	0
5	1	0	0	0	0

FEED SELECTOR SWITCH CODE:

X1	0	0	1
X10	0	1	0
X 100	1	0	0

BINARY OUTPUTS

AXIS SELECTOR SWITCH CODE:

OFF	0	0	0	0	0
X	0	0	0	0	1
Y	0	0	0	1	0
Z	0	0	0	1	1
4	0	0	1	0	0
5	0	0	1	0	1

FEED SELECTOR SWITCH CODE:

X1	0	0	0
X10	0	0	1
X 100	0	1	0

GRAY OUTPUTS

AXIS SELECTOR SWITCH CODE:

OFF	0	0	0	0	0
X	0	0	0	0	1
Y	0	0	0	1	1
Z	0	0	0	1	0
4	0	0	1	1	0
5	0	0	1	1	1

FEED SELECTOR SWITCH CODE:

X1	0	0	0
X10	0	0	1
X 100	0	1	1