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PWM Power Supply `LAN` `8bit`

With multi-channel control function (Corresponding to LAN communication)

# Programable digital PWM Power Supply
IDGB-PG series

Seamless power supply with programming mode function.
No need of PLC.

CE   PSE

PG-SERIES

It has a new function, "programming mode"

· It can set the number of output and order controlled by one <ON> signal.
· Lighting mode: you can choose from Level or Edge mode.
· At the most, it can set and save 8CH ×4 patterns of lighting order, output and lighting time.
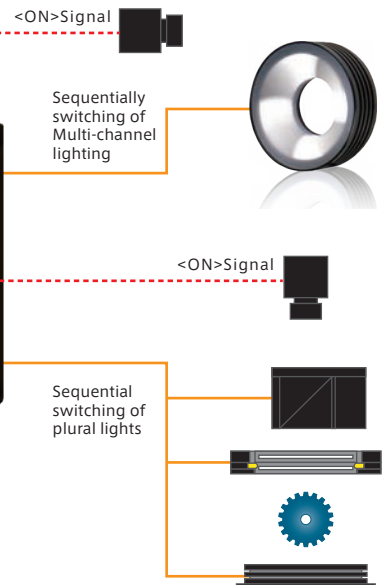
Easy pattern setting with LAN

Edit Pattern No.
Pattern1
Pattern2
Pattern3
Pattern4
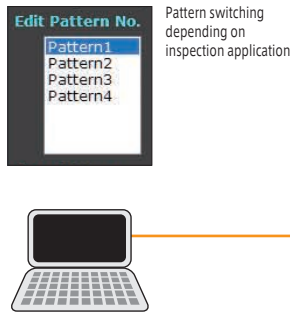
Pattern switching depending on inspection application

<Configurable items>
·Lighting order   ·Lighting mode (Level/Edge)
·Output control   ·Pattern switching
·Lighting time   ·Delay

<ON>Signal

Sequentially switching of Multi-channel lighting

<ON>Signal

Sequential switching of plural lights

One pattern can set the parameters of 8 channels.
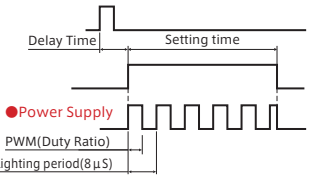
Provide sample applications to support Setting

·Edge mode
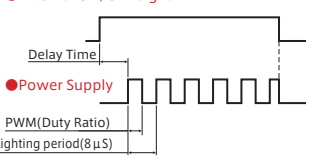Lighting time is same as the set time (Set time of the Time section).

●External ON/OFF Signal
Delay Time   Setting time

●Power Supply
PWM(Duty Ratio)
Lighting period(8μS)

·Level mode
Lighting time is synchronized to input time of <ON> signal

●External ON/OFF Signal
Delay Time

●Power Supply
PWM(Duty Ratio)
Lighting period(8μS)

Setting pattern number

Reset function
Restart from the 1st signal

	ON/OFF ☐
	PWM 0
	Time 0.1ms

ON/OFF : Setting output of each channel
P W M : Setting output value by 255-level
T i m e : Setting lighting time (Edge mode only)

PatternSetting   — ☐ ✕

File   Window   Option

Programming Mode
○ Disable
○ Enable
● Level
○ Edge
[Get]

Running Pattern
Pattern1 ∨
[Get]

Edit Pattern No.
Pattern1
Pattern2
Pattern3
Pattern4

Copy Pattern
Source Pattern
Pattern1 ∨
[Copy]

Trigger Count
1st Trigger
[Get]

Count Reset
[Reset]

Pattern Data * Control screen appears when you double-click a Duty or Time data box.

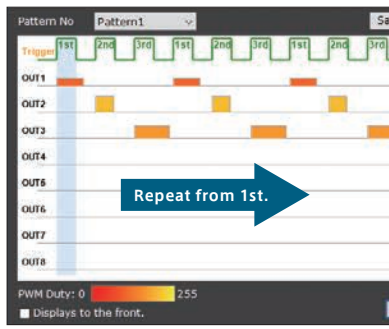|		1st Trigger	2nd Trigger	3rd Trigger	4th Trigger	5th Trigger	6th Trigger	7th Trigger	8th Trigger	Max Trigger
OUT1	ON/OFF	☑	☐	☐	☐	☐	☐	☐	☐	8 ∨
	PWM	255	0	0	0	0	0	0	0	< Copy
	Time	20ms	0.1ms	0.1ms	0.1ms	0.1ms	0.1ms	0.1ms	0.1ms	
OUT2	ON/OFF	☐	☑	☐	☐	☐	☐	☐	☐	
	PWM	0	255	0	0	0	0	0	0	< Copy
	Time	0.1ms	20ms	0.1ms	0.1ms	0.1ms	0.1ms	0.1ms	0.1ms	
OUT3	ON/OFF	☐	☐	☑	☐	☐	☐	☐	☐	
	PWM	0	0	255	0	0	0	0	0	< Copy
	Time	0.1ms	0.1ms	20ms	0.1ms	0.1ms	0.1ms	0.1ms	0.1ms	
OUT4	ON/OFF	☐	☐	☐	☑	☐	☐	☐	☐	
	PWM	0	0	0	255	0	0	0	0	< Copy
	Time	0.1ms	0.1ms	0.1ms	20ms	0.1ms	0.1ms	0.1ms	0.1ms	
OUT5	ON/OFF	☐	☐	☐	☐	☑	☐	☐	☐	
	PWM	0	0	0	0	255	0	0	0	< Copy
	Time	0.1ms	0.1ms	0.1ms	0.1ms	20ms	0.1ms	0.1ms	0.1ms	Copy
OUT6	ON/OFF	☐	☐	☐	☐	☐	☑	☐	☐	
	PWM	0	0	0	0	0	255	0	0	< Copy
	Time	0.1ms	0.1ms	0.1ms	0.1ms	0.1ms	20ms	0.1ms	0.1ms	
OUT7	ON/OFF	☐	☐	☐	☐	☐	☐	☑	☐	
	PWM	0	0	0	0	0	0	255	0	< Copy
	Time	0.1ms	0.1ms	0.1ms	0.1ms	0.1ms	0.1ms	20ms	0.1ms	
OUT8	ON/OFF	☐	☐	☐	☐	☐	☐	☐	☑	
	PWM	0	0	0	0	0	0	0	255	< Copy
	Time	0.1ms	0.1ms	0.1ms	0.1ms	0.1ms	0.1ms	0.1ms	20ms	
[Get]		Copy	Copy	Copy	Copy	Copy	Copy	Copy	Copy	Apply
					Copy					

Max Trigger
8 ∨

By setting execution patterns, the number of times of ON signals within one sycle can be chosen from 1 to 8.
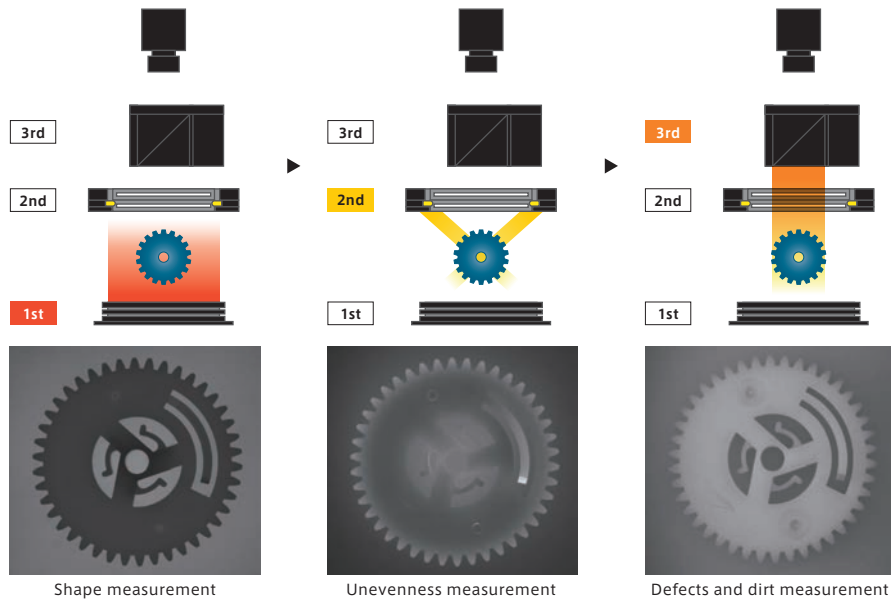
Up to 4 execution patterns can be saved. Pattern calling possible from saved file.

Application programming example: plural lights (backlight → horizontal ringlight → coaxial light)

・No need of technical knowledge of PLC control. You can see the setting with PC.

		1st Trigger	2nd Trigger	3rd Trigger	4th Trigger	5th Trigger	
OUT1	ON/OFF	☑	☐	☐	☐	☐	☐
	PWM	100	0	0	0	0	
	Time	15ms	0.1ms	0.1ms	0.1ms	0.1ms	0
OUT2	ON/OFF	☐	☑	☐	☐	☐	☐
	PWM	0	200	0	0	0	
	Time	0.1ms	10ms	0.1ms	0.1ms	0.1ms	0
OUT3	ON/OFF	☐	☐	☑	☐	☐	☐
	PWM	0	0	160	0	0	
	Time	0.1ms	0.1ms	20ms	0.1ms	0.1ms	0
OUT4	ON/OFF	☐	☐	☐	☐	☐	
	PWM	0	0	0	0	0	

Shape measurement

Unevenness measurement

Defects and dirt measurement

Lineup total 21Models

Our diverse lineup of 21 models includes two kinds input voltage of AC100~240V/DC 24V, two kinds of output voltage of DC12V/24V, three Capacities of 30W/50W/100W, and three channnel choices of 2/4/8 each. The various selections give you the best choice of the power supply depending on light combination and environment.

Model	Input Voltage	Output Voltage	Capacity(W)	Channels	Weight(g)	Drawing
IDGB-30M2PG-TP	AC100~240V	DC12V	30	2CH	700	1
IDGB-30M4PG-TP				4CH	1000	2
IDGB-30M8PG-TP				8CH		
IDGB-50M2PG-TP			50	2CH	1200	3
IDGB-50M4PG-TP				4CH		
IDGB-50M8PG-TP				8CH		
IDGB-100M2PG-TP			100	2CH	1300	4
IDGB-100M4PG-TP				4CH		
IDGB-100M8PG-TP				8CH		
IDGB-30M2PG-24-TP		DC24V	30	2CH	700	1
IDGB-30M4PG-24-TP				4CH	1000	2
IDGB-30M8PG-24-TP				8CH		
IDGB-50M2PG-24-TP			50	2CH	1200	3
IDGB-50M4PG-24-TP				4CH		
IDGB-50M8PG-24-TP				8CH		
IDGB-100M2PG-24-TP			100	2CH	1300	4
IDGB-100M4PG-24-TP				4CH		
IDGB-100M8PG-24-TP				8CH		
IDGB-50M2PG-24-TP-T	DC24V		46	2CH	700	5
IDGB-150M4PG-24-TP-T			144	4CH	1000	6
IDGB-150M8PG-24-TP-T				8CH		

Common Specifications

Output Control Method	PWM approx. 125kHz
External Control	External ON/OFF, External Output Control
Protection Function	Overcurrent protection function, FAN error

Communication Specification(LAN)

Communication Protocol	TCP/IP
Regulatory Compliance	IEEE802.3(10BASE-T)、IEEE802.3u(100BASE-TX)
Communication Speed	10Mbps(10BASE-T)、100Mbps(100BASE-TX)
Connection Ports	4ports
Function	Auto MDI/MDIX、Auto Negotiation

*The lighting connector number is different from the design depending on the channel number.
*The lighting connector shape for DC24V output specification is different from the design's outline drawing.
*For details o f external control cable, see page 104,105.

1 IDGB-30M2PG-TP

2 IDGB-30M4PG-TP

3 IDGB-50M4PG-TP

4 IDGB-100M8PG-TP

5 IDGB-50M2PG-24-TP-T

6 IDGB-150M4PG-24-TP-T

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