



TECHNICAL SPECIFICATION

Power Supply		100-240 VAC 50/60 Hz			
		24 VAC/VDC ± 15%			
Power Consumption		4 VA			
Color of LED Unit		Red, Yellow, Green, Blue			
Flashing Rate	Rotation pattern	175 ±10 Flashes Per Minute			
	Flashing pattern	55 ±10 Flashes Per Minute			
	Strobe pattern	Double 75 ±10 Flashes Per Minute			
Mounting Location		Indoors and Outdoors In the case of use as UL standard model, this product can be used only indoors.(Do not use it outdoors.)			
Mounting Direction	Indoors	Upright, Inverted and Sideways			
	Outdoors	Upright only			
Protection Rating	Indoors	Environmental Condition IP 55 : with rubber mount			
	Outdoors	IP 23			
Luminous Intensity	Luminous color	Red	Yellow	Green	Blue
	Type	10cd or more	15cd or more	15cd or more	3cd or more
Buzzer		90 dB Max (at 1M.)			
Lamp Life		100,000 Hr.			
Communication	Protocol	MODBUS RTU			
	Baud Rate	4800, 9600, 19200, 38400			
	Parity	None			
	Stop Bit	1			
	Data Bit	8			
Ambient Operation	Maximum Support Node	1-15			
	Temperature	-10 °Cto 60 °C			
Ambient Storage	Humidity	85% RH Non-Condensing			
	Temperature	-20 °Cto 80 °C			
Material	Humidity	85% RH Non-Condensing			
	Tower	ABS-V0			
Size (mm.)		105 x 168			
Weight		450 g.			

DESCRIPTION

- Rotation warning light, can use in AC and DC system.
- High brightness and long service life with LED High Power.
- 3 Pattern Flashing are Rotation Pattern, Flashing Pattern and Strobe pattern.
- Buzzer alarm 3 type at 90 dB Max (at 1M.) and can set sound level as require.
- Push/Pull connection can use both NPN/PNP, Open Collector.
- RS-485 MODBUS RTU Protocol Communication.
- Anti-stain material Protection IP 55 (upright installation), IP 23 (upside down installation).
- Clear vision 360°

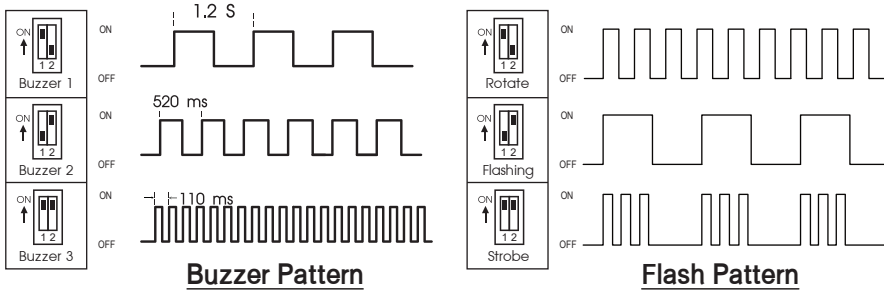
OPERATION

TLW-01/TLW-02 Rotation Warning Light can install in upright and upside down. suit with install inside building. Outdoor install can install in Upright only.

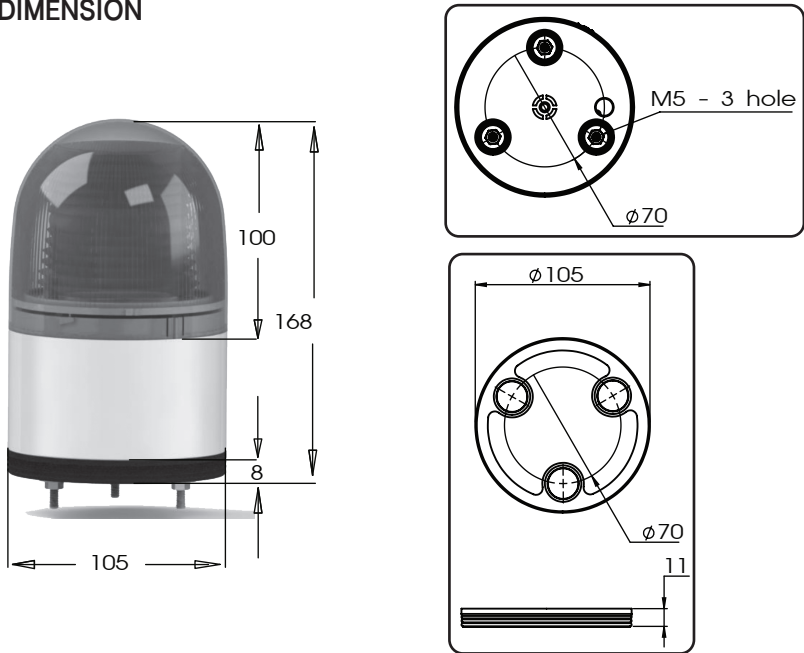
TLW-01/TLW-02 can operate in 3 pattern Flashing are Rotation Pattern (Rotate all the time 175±10 Flashes/Minute), Flashing Pattern (Flash 55±10 Flashes/Minute), Strobe Pattern (Rotate and Flash 2 times 75±10 Flashes/Minute)

Buzzer alerts sound in case staff stay away from machine and has 3 pattern at 90 dB Max (at 1M.) or send the notice data to Computer by RS-485.

Buzzer and Flash Pattern



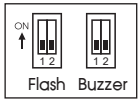
DIMENSION



RS-485 Communication

How to use MODBUS RTU

1. Set DipSwitch at Flash and buzzer to "00" for using via RS-485.
2. Set Address and Baud rate as require.
3. Write value to command LED and or Buzzer operate (follow table Register)
4. If needs to change address and Baud rate must reset device again.

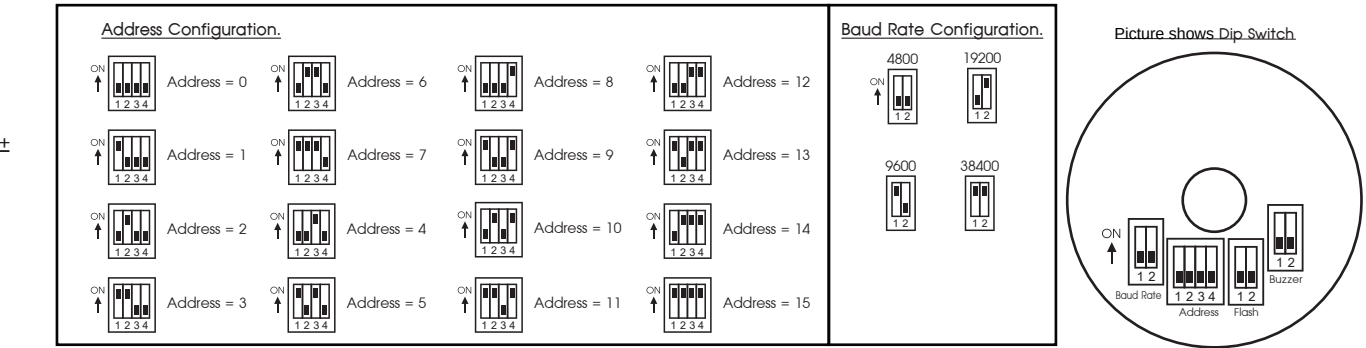


How to write value Register 0x000 to 0x001 to set LED or Buzzer.

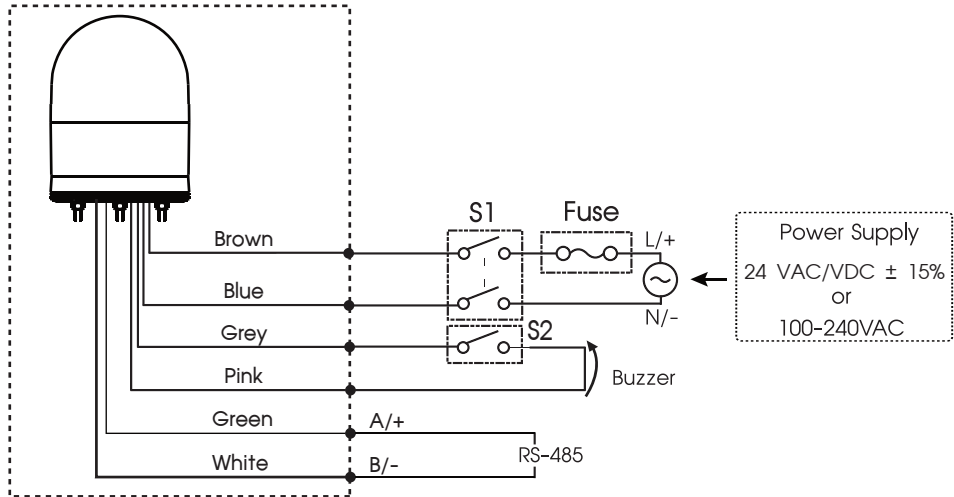
Reg. Address		Contents	Format	Word	Access
Decimal	Hex				
0	0x000	LED Num	Unsigned int	1	R/W
1	0x001	Buzzer Num	Unsigned int	1	R/W
2	0x002	LED Flash Pattern	Unsigned int	1	Read Only
3	0x003	Buzzer Pattern	Unsigned int	1	Read Only
4					
5	0x005	Baud Rate	Unsigned int	1	Read Only
6	0x006	Parity (None)	Unsigned int	1	Read Only
7	0x007	Address	Unsigned int	1	Read Only

Hex	RS-485	
	LED Num	Buzzer Num
0000 H =	0=OFF	0=OFF
0001 H =	1=Rotate	1=Buzzer1
0002 H =	2=Flash	2=Buzzer2
0003 H =	3=Strobe	3=Buzzer3

Register at 2 to 7 will can read value whole time.



WIRING DIAGRAM



ORDERING CODE

TLW -		Power Supply	-	Color	-	Buzzer	-	Communication	
Power Supply				Color		Buzzer		Communication	
01	24 VAC/VDC ± 15%	R	Red	None	None	None	None		
02	100-240 VAC	Y	Yellow	B	Buzzer 90 dB.	M	RS-485		
		G	Green						
		B	Blue						

บริษัท ไพรมัส จำกัด
119 ซ.สีม่วงอนุสรณ์ ถ.สุทธิสารวินิจฉัย แขวงดินแดง เขตดินแดง กรุงเทพฯ 10400
โทร 0-2693-7005, 0-2277-8027 แฟกซ์ 0-2277-3565
E-mail : sales@primusthai.com