SYNACORP TRADING & SERVICES



No.9, 1st Floor, Lorong 1/SS2, Bandar Tasek Mutiara, 14120 Simpang Ampat, S.Prai (S), Penang Tel : +604.502.1726 Hunting Line : 012.403.3474 Fax : +604.502.1726 (Website) http://www.synacorp.my (Email) sales@synacorp.com.my

Sunx PM-T44-Micro Photoelectric Sensor

Technical Specifications

Sensing range: 5 mm (fixed) Minimum sensing object: 0.8×1.8 mm opaque object Hysteresis: 0.05 mm or less Repeatability: 0.03 mm or less Supply voltage: 5–24 V DC Current consumption: 15 mA or less Output:

- Maximum sinks current: 50 mA
- Applied voltage: 30 V DC or less
- **Residual voltage:** 0.7 V or less (at 50 mA sink current) 0.4 V or less (at 16 mA sink current)

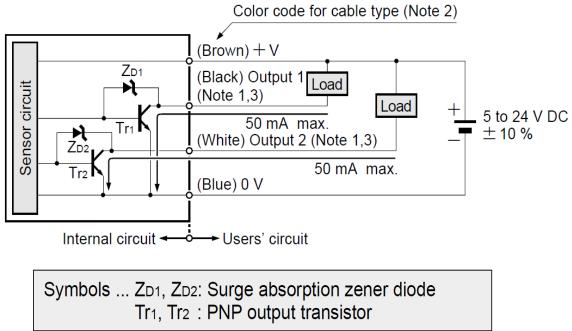
Output operation: 2 NPN outputs (Light-ON / Dark-ON) **Response time:**

- Under light received condition: 20 µs or less
- Under light interrupted condition: 100 µs or less
- **Response frequency:** 1 kHz or more

Cable: 0.09 mm² (4-core cabtyre cable) **Weight:** 15 g

Dimensions, Configuration and Pin-out

Circuit Diagram:

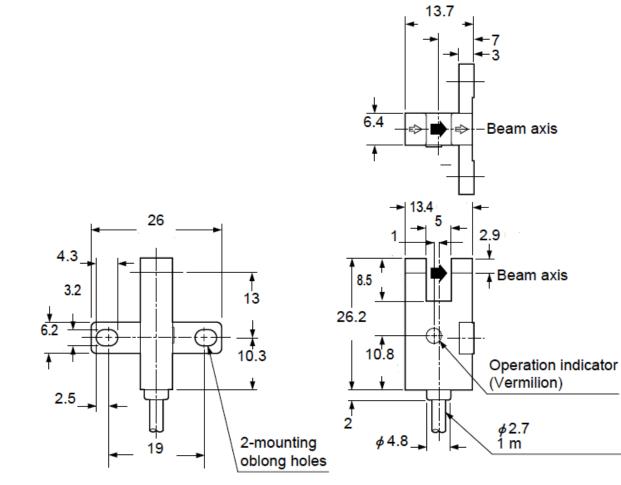




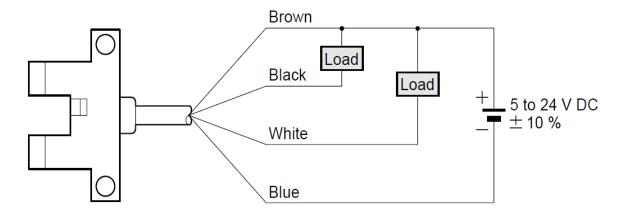
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Product dimension (unit:mm):



Wiring Diagram:



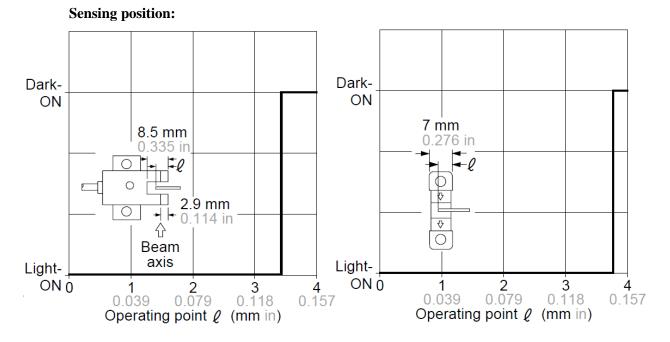


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Output Operation:

	Color Code	Output operation
Output 1	Black	Light-ON
Output 2	White	Light-OFF



Applications

- 1) Sensing the starting point on a rotating body
- 2) Determining the pallet position
- 3) Sensing the starting point and overrun of a moving body
- 4) Detection of present/absence and counting of product in total packing

IMPORTANT NOTES

- 1. Make sure to connect terminals correctly as the sensor does not incorporate a reverse polarity protection circuit.
- 2. Further, the output is not incorporated with a short-circuit protection circuit. Do not connect it directly to a power supply or a capacitive load. Faulty wiring may result in damage.
- 3. The color code of the connector attached cable is also the same.
- 4. Ensure to insulate the unused output wire.
- 5. Do not use during the initial transient time (50 ms) after the power supply is switched on.
- 6. Take care that extraneous light is not directly incident on the beam receiving section.