

INSTRUCTION MANUAL

Photoelectric Sensor Digital Mark Sensor LX-100

CME LX100 No.2133-00

Thank you very much for using SUNX products. Please read this Instruction Manual carefully and thoroughly for the correct and optimum use of this product. Kindly keep this manual in a convenient place for quick reference.



- Never use this product as a sensing device for personnel protection.
- In case of using sensing devices for personnel protection, use products which meet standards, such as OSHA, ANSI or IEC etc., for personnel protection applicable in each region or country.

1 SPECIFICATIONS

Item	Model No.	Type	Cable type	Connector type
		NPN output PNP output	LX-100 LX-100-P	LX-100-Z LX-100-P-Z
Setting distance			50mm or 3mm	
Supply voltage			12 to 24V DC $\pm 10\%$ (Multiple P-P 10%, or less)	
Current consumption			Normal mode: 15mA or less Current consumption: 3mA or less at 24V supply voltage 0.0C mode: 60mA or less Current consumption: 2mA or less at 24V supply voltage	
Teaching input			<NPN output type> Low (ON): 0 to 3V DC Source current: 0.5mA or less Input impedance: 10k Ω approx. High (OFF): 5V to 24V DC, or open	<PNP output type> High (ON): 5V to 24V DC Sink current: 0.5mA or less Input impedance: 10k Ω approx. Low (OFF): 0 to 0.6V DC, or open
Output 1 (OUT)			<NPN output type> NPN open-collector transistor - Max. sink current: 50mA (Note 1) - Applied voltage: 24V DC or less (between output 1 and V0) - Residual voltage: 1.5V or less (at 50mA sink current)	<PNP output type> PNP open-collector transistor - Max. source current: 50mA (Note 1) - Applied voltage: 24V DC or less (between output 1 and V0) - Residual voltage: 1.5V or less (at 50mA source current)
Output operation			Mark mode: Light ON/Mark OFF Auto-setting method on teaching Color mode: Co-incidence ON/Non-coincidence OFF	
Short-circuit protection			Inc or protected	
Output 2 (Inverted output) (OUT)			<NPN output type> NPN open-collector transistor - Max. sink current: 50mA - Applied voltage: 24V DC or less (between output 2 and V0) - Residual voltage: 1.5V or less (at 50mA sink current)	—
Output operation			<PNP output type> PNP open-collector transistor - Max. source current: 50mA - Applied voltage: 24V DC or less (between output 2 and V0) - Residual voltage: 1.5V or less (at 50mA source current)	—
Short-circuit protection			Incorporated	
Response time			Mark mode: 45 μ s or less, Color mode: 150 μ s or less	
Operation indicator			Orange LED lights up when output 1 is ON	
MODE indicator			Turn Green LED, TEACH, 40 μ s, COLOR, SHIELD, PHOTO sensor LED	
Digital display			4-digits red LED display	
Sensitivity setting			Mark mode: 2 level teaching Full sub teaching, Color mode: 1 level teaching	
Freeze/adjust indicator			Inc or protected	
Timer function			Incorporated OFF delay timer ON delay timer, adjustable after after time or reflexive	
Protection			IP67 (NEMA)	
Ambient temperature			-10 to +55°C (No dew condensation or icing allowed), Storage: -20 to +70°C	
Ambient humidity			35 to 85% RH, Storage: 35 to 85% RH	
Emitting element			Red-green-blue LED	
Material			Enclosure: PET, Display: Polyethylene, Operation buttons: Non-cable Lens: Glass	
Cable			0.2mm ϕ Scale cable: cable 3m long	
Weight			120g approx.	155g approx.

- Notes: 1) The connector type LX-100-CZ is 100mm.
 2) The connecting cable is not supplied as an accessory for the connector type LX-100-CZ. Make sure to use the optional cables with connector below.
 C-NB04C3-S 4-core, Cable length: 3m C-NB04C3-ES 4-core type, 4-core, Cable length: 3m
 C-NB04C3-S 4-core, Cable length: 3m C-NB04C3-ES 4-core type, 4-core, Cable length: 3m



2 CAUTIONS

- Make sure that the power supply is off while wiring.
- Take care that wrong wiring will damage the sensor.
- Verify that the supply voltage variation is within the rating.
- Take care that if a voltage exceeding the rated range is applied, or if an A/C power supply is directly connected, the sensor may get burnt or damaged.
- In case noise generating equipment (switching regulator, inverter motor, etc.) is used in the vicinity of this product, connect the frame ground (F.G.) terminal of the equipment to an actual ground.
- If power is supplied from a commercial switching regulator, ensure that the frame ground (F.G.) terminal of the power supply is connected to an actual ground.
- Do not use during the initial transient time (0.5 sec.) after the power supply is switched on.
- Take care that short-circuit of the lead or wrong wiring may burn or damage the sensor.
- Do not run the wires together with high-voltage lines or power lines or put them in the same raceway. This can cause malfunction due to induction.
- Take care that the sensor is not directly exposed to fluorescent light from a rapid-starter lamp or a high frequency light device.
- If the surface of the sensing object has a shine, mount the sensor inclining approx. 1.0 to 15 degrees against the sensing object.
- Do not touch the lens of the sensor by hand directly. If the lens becomes dirty, wipe it off with a soft cloth gently.
- When the inside lens is steamed up, unscrew the lens to get rid of the condensation.
- For LX-100-CZ, be sure to use the optional cable with connector.
- Extension up to total 100m is possible with 0.3mm ϕ or more cable. However, in order to reduce noise, make the wiring as short as possible.
- This sensor is suitable for indoor use only.
- Do not use this sensor in places having excessive vapor, dust, etc., or where it may come in direct contact with water or corrosive gas.
- Take care that the product does not come in direct contact with water, oil, grease, or organic solvents, such as, thinner, etc.
- Make sure that stress by forcible bend or pulling with 75N, or more, force is not applied directly to the sensor cable joint.
- This sensor cannot be used in an environment containing inflammable or explosive gases.
- Never disassemble or modify the sensor.

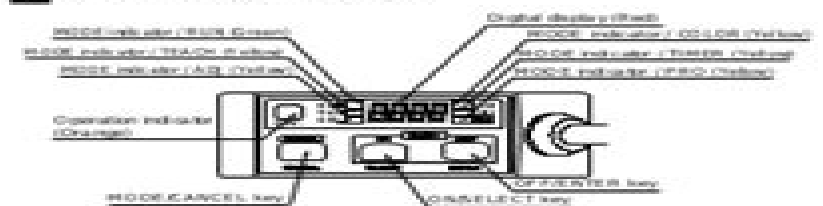


3 MOUNTING

- Care must be taken regarding the sensor mounting direction with respect to the object's direction of movement.
- The tightening torque should be 0.8N·m or less.

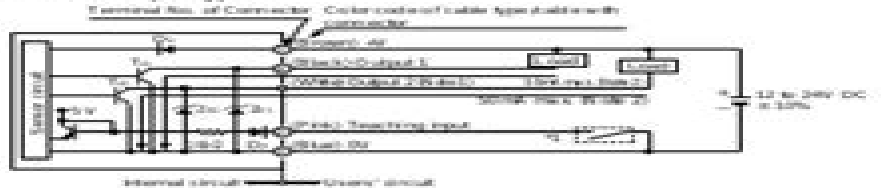


4 PART DESCRIPTION



5 I/O CIRCUIT DIAGRAMS

- NPN output type



- Notes: 1) The output 2 is not incorporated after connector type LX-100-CZ.
 2) The current of the connector type LX-100-CZ is 100mA.

Manual Panasonic Lx

Sabine Zange



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