

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: 150mA 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			Inverted operation of this output 2	
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: Red, COLOR: Yellow, SHIELD: Brown 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 (mark only) Inc, adjustable after after time or reflective	
Protection			IP67 (NEMA 4)	
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.	

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 3-tracks, 4-con, Cable length: 3m C-NB04C3 3-tracks type 4-con, Cable length: 3m
 C-NB04C3-S 3-tracks, 4-con, Cable length: 3m C-NB04C3 3-tracks type 4-con, 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 AC 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 T5N, 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.

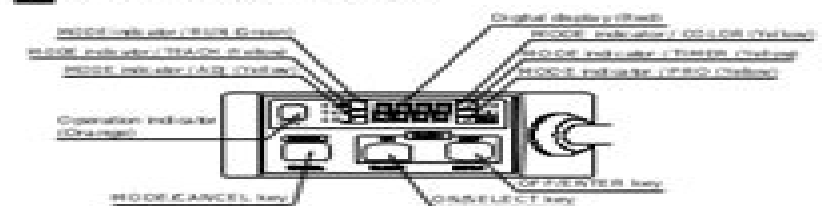


3 MOUNTING

- 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.

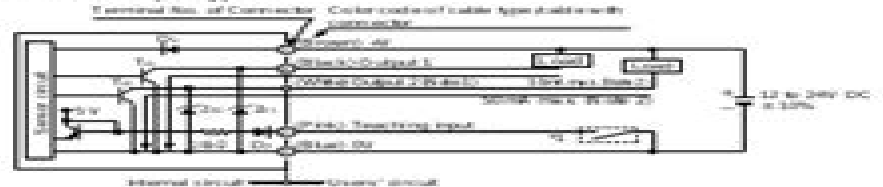


4 PART DESCRIPTION



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.

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Photographer's Guide to the Panasonic Lumix LX3 Alexander S. White, 2010-07-12 Photographer's Guide to the Panasonic Lumix LX3 Getting the Most from Panasonic's Versatile Digital Camera is a follow up to the author's well received guide to a very similar camera the Leica D Lux 4 This new guidebook covers all features and operations of the LX3 one of the most highly esteemed compact digital cameras of recent years In 232 pages with numerous color photographs and illustrations the book explains in plain language how to achieve the best possible results taking pictures with the automatic or manual controls of the LX3 Although much of the information in this book is similar to that in the earlier book about the Leica D Lux 4 camera this new volume is updated to include several new features that were added to both cameras when their internal firmware operating system was upgraded to version 2.0 These new features include white balance bracketing 1:1 aspect ratio lens resume and several others Therefore the book will be useful to users of the latest versions of both the Panasonic Lumix LX3 and the Leica D Lux 4

Photographer's Guide to the Leica D-Lux 4 Alexander S. White, 2014-10-24 This book is a comprehensive illustrated guide to the operation features menus and controls of the Leica D Lux 4 compact camera It provides clearly written guidance for how to achieve excellent results using the camera's numerous sophisticated options It also discusses topics such as infrared photography macro photography and street photography and provides information about accessories for the D Lux 4

Conservation Drones Serge A. Wich, Lian Pin Koh, 2018-05-31 Increasing numbers of ecologists and conservation biologists have begun to explore the use of drone technology to obtain accurate and up to date data on the distribution and density of species as well as the threats to their habitats in their ongoing attempts to conserve and monitor biodiversity Conservation drones are low cost autonomous and operator friendly unmanned aerial vehicles that can be used for surveying mapping and monitoring both habitat and biodiversity They are fast becoming a valuable complement to ground based surveys and satellite imagery for a wide range of ecological and conservation applications The authors pioneered the use of conservation drones for the purpose of monitoring orangutan populations in Southeast Asia They subsequently founded ConservationDrones.org to share their knowledge of building and using drones with colleagues in the wider environmental community This website has proved highly popular and this book aims to further build capacity to use drones and inspire others to adapt emerging technologies for practical conservation

Hi Fi/stereo Review, 1996 National Business Bulletin, 2002 **Compute**, 1989 **Foxpro Windows Advanced Multi-Users Developers Handbook** Pat Adams, 1994 FoxPro is fast becoming the database of choice among developers This book covers every aspect of FoxPro for Windows and Windows and DOS cross platform issues It provides routines and tools that developers need and shows how to work with sounds and graphics and how to create applications Covers multiuser applications and networking **Motor Cycling and Motoring**, 1987 **Computer Buyer's Guide and Handbook**, 1998-07 The Panasonic DMC-FZ1000 User's Manual Graham Houghton, 2019-03-16 A black and white illustrated user's

manual for the Panasonic Lumix DMC FZ1000 camera covering both the basic camera set up in the full auto intelligent auto and all the other semi automatic and manual modes Plenty of illustrations and examples of the effects of the control settings and extensive background information on the image taking process with this camera Advise on how to take pictures in any situation and practical advice for recording video and audio with this camera from lighting and external microphone choice Practical hints and tips for advancing your photography with access to more tutorials and web based information

PC/Computing ,1994-04 Panasonic Lumix DMC-Fz200 User's Manual Graham Houghton,2013-12-09 An illustrated user s manual for the Panasonic Lumix FZ200 camera covering both the basic camera set up in the full auto intelligent auto and all the other semi automatic and manual modes Plenty of illustrations and examples of the effects of the control settings and extensive background information on the image taking process with this camera Advise on how to take pictures in any situation and practical advice for recording video and audio with this camera from lighting and external microphone choice Complete with links to several hours on on line video tutorials and hints and tips Microtimes ,1999 *PC World* ,1993

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