

# INSTRUCTION MANUAL

## Photoelectric Sensor Digital Mark Sensor LX-100

CME LX100 NA 2113-00

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: 10mA or less Current consumption: 3mA or less at 24V supply voltage 0.0C mode: 50mA or less Current consumption: 2mA or less at 24V supply voltage	
Teaching input			<b>-NPN output type-</b> Low (ON): 0 to 3V DC Source current: 0.5mA or less Input impedance: 10k $\Omega$ approx. High (OFF): 5V to 24V DC, or open	<b>-NPN output type-</b> High (ON): 5V to 24V DC Sink current: 0.5mA or less Input impedance: 10k $\Omega$ approx. Low (OFF): 0 to 0.6V DC, or open
Output 1 (OUT)			<b>-NPN output type-</b> 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)	<b>-PNP output type-</b> 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 (Inversion output) (OUT)			<b>-NPN output type-</b> 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			<b>-PNP output type-</b> 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 $\mu$ s or less, Color mode: 150 $\mu$ s or less	
Operation indicator			Orange LED lights up when output 1 is ON	
MODE indicator			MARK: Green LED, TEACH: Red LED, COLOR: Yellow LED, SHIELD: Brown LED	
Digital display			4-digits red LED display	
Sensitivity setting			Mark mode: 2-level teaching/Full auto-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 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: Resin, Lens: Glass	
Cable			0.2mm $\phi$ 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-100-C35-3m type, 4-con, Cable length: 3m C-100-C35-4.5m type, 4-con, Cable length: 4.5m C-100-C35-6m type, 4-con, Cable length: 6m C-100-C35-7.5m type, 4-con, Cable length: 7.5m C-100-C35-9m type, 4-con, Cable length: 9m C-100-C35-11m type, 4-con, Cable length: 11m C-100-C35-13m type, 4-con, Cable length: 13m C-100-C35-15m type, 4-con, Cable length: 15m C-100-C35-17m type, 4-con, Cable length: 17m C-100-C35-19m type, 4-con, Cable length: 19m C-100-C35-21m type, 4-con, Cable length: 21m C-100-C35-23m type, 4-con, Cable length: 23m C-100-C35-25m type, 4-con, Cable length: 25m C-100-C35-27m type, 4-con, Cable length: 27m C-100-C35-29m type, 4-con, Cable length: 29m C-100-C35-31m type, 4-con, Cable length: 31m C-100-C35-33m type, 4-con, Cable length: 33m C-100-C35-35m type, 4-con, Cable length: 35m C-100-C35-37m type, 4-con, Cable length: 37m C-100-C35-39m type, 4-con, Cable length: 39m C-100-C35-41m type, 4-con, Cable length: 41m C-100-C35-43m type, 4-con, Cable length: 43m 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C-100-C35-595m type, 4-con, Cable length: 595m C-100-C35-597m type, 4-con, Cable length: 597m C-100-C35-599m type, 4-con, Cable length: 599m C-100-C35-601m type, 4-con, Cable length: 601m C-100-C35-603m type, 4-con, Cable length: 603m C-100-C35-605m type, 4-con, Cable length: 605m C-100-C35-607m type, 4-con, Cable length: 607m C-100-C35-609m type, 4-con, Cable length: 609m C-100-C35-611m type, 4-con, Cable length: 611m C-100-C35-613m type, 4-con, Cable length: 613m C-100-C35-615m type, 4-con, Cable length: 615m C-100-C35-617m type, 4-con, Cable length: 617m C-100-C35-619m type, 4-con, Cable length: 619m C-100-C35-621m type, 4-con, Cable length: 621m C-100-C35-623m type, 4-con, Cable length: 623m C-100-C35-625m type, 4-con, Cable length: 625m C-100-C35-627m type, 4-con, Cable length: 627m C-100-C35-629m type, 4-con, Cable length: 629m C-100-C35-631m type, 4-con, Cable length: 631m C-100-C35-633m type, 4-con, Cable length: 633m C-100-C35-635m type, 4-con, Cable length: 635m C-100-C35-637m type, 4-con, Cable length: 637m C-100-C35-639m type, 4-con, Cable length: 639m C-100-C35-641m type, 4-con, Cable length: 641m C-100-C35-643m type, 4-con, Cable length: 643m C-100-C35-645m type, 4-con, Cable length: 645m C-100-C35-647m type, 4-con, Cable length: 647m C-100-C35-649m type, 4-con, Cable length: 649m C-100-C35-651m type, 4-con, Cable length: 651m C-100-C35-653m type, 4-con, Cable length: 653m C-100-C35-655m type, 4-con, Cable length: 655m C-100-C35-657m type, 4-con, Cable length: 657m C-100-C35-659m type, 4-con, Cable length: 659m C-100-C35-661m type, 4-con, Cable length: 661m C-100-C35-663m type, 4-con, Cable length: 663m C-100-C35-665m type, 4-con, Cable length: 665m C-100-C35-667m type, 4-con, Cable length: 667m C-100-C35-669m type, 4-con, Cable length: 669m C-100-C35-671m type, 4-con, Cable length: 671m C-100-C35-673m type, 4-con, Cable length: 673m C-100-C35-675m type, 4-con, Cable length: 675m C-100-C35-677m type, 4-con, Cable length: 677m C-100-C35-679m type, 4-con, Cable length: 679m C-100-C35-681m type, 4-con, Cable length: 681m C-100-C35-683m type, 4-con, Cable length: 683m C-100-C35-685m type, 4-con, Cable length: 685m C-100-C35-687m type, 4-con, Cable length: 687m C-100-C35-689m type, 4-con, Cable length: 689m C-100-C35-691m type, 4-con, Cable length: 691m C-100-C35-693m type, 4-con, Cable length: 693m C-100-C35-695m type, 4-con, Cable length: 695m C-100-C35-697m type, 4-con, Cable length: 697m C-100-C35-699m type, 4-con, Cable length: 699m C-100-C35-701m type, 4-con, Cable length: 701m C-100-C35-703m type, 4-con, Cable length: 703m C-100-C35-705m type, 4-con, Cable length: 705m C-100-C35-707m type, 4-con, Cable length: 707m C-100-C35-709m type, 4-con, Cable length: 709m C-100-C35-711m type, 4-con, Cable length: 711m C-100-C35-713m type, 4-con, Cable length: 713m C-100-C35-715m type, 4-con, Cable length: 715m C-100-C35-717m type, 4-con, Cable length: 717m C-100-C35-719m type, 4-con, Cable length: 719m C-100-C35-721m type, 4-con, Cable length: 721m C-100-C35-723m type, 4-con, Cable length: 723m C-100-C35-725m type, 4-con, Cable length: 725m C-100-C35-727m type, 4-con, Cable length: 727m C-100-C35-729m type, 4-con, Cable length: 729m C-100-C35-731m type, 4-con, Cable length:

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**Pat Adams**



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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

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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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## **Table of Contents Manual Panasonic Lx**

1. Understanding the eBook Manual Panasonic Lx
  - The Rise of Digital Reading Manual Panasonic Lx
  - Advantages of eBooks Over Traditional Books
2. Identifying Manual Panasonic Lx
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Manual Panasonic Lx
  - User-Friendly Interface
4. Exploring eBook Recommendations from Manual Panasonic Lx
  - Personalized Recommendations
  - Manual Panasonic Lx User Reviews and Ratings
  - Manual Panasonic Lx and Bestseller Lists

5. Accessing Manual Panasonic Lx Free and Paid eBooks
  - Manual Panasonic Lx Public Domain eBooks
  - Manual Panasonic Lx eBook Subscription Services
  - Manual Panasonic Lx Budget-Friendly Options
6. Navigating Manual Panasonic Lx eBook Formats
  - ePub, PDF, MOBI, and More
  - Manual Panasonic Lx Compatibility with Devices
  - Manual Panasonic Lx Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Manual Panasonic Lx
  - Highlighting and Note-Taking Manual Panasonic Lx
  - Interactive Elements Manual Panasonic Lx
8. Staying Engaged with Manual Panasonic Lx
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Manual Panasonic Lx
9. Balancing eBooks and Physical Books Manual Panasonic Lx
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Manual Panasonic Lx
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Manual Panasonic Lx
  - Setting Reading Goals Manual Panasonic Lx
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Manual Panasonic Lx
  - Fact-Checking eBook Content of Manual Panasonic Lx
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

#### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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