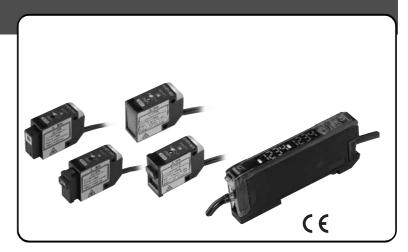


Photoelectric Sensors with Separate Digital Amplifiers (Laser-type Amplifier Units) E3C-LDA Series

- All three beam types provide ample long-distance detection of 1,000 mm for Diffuse Reflective Models.
- Coaxial Retroreflective Models provide detection performance equivalent to through-beam sensors, simplifying Sensor installation.
- Industry-first variable focal point and optical axis alignment mechanisms. Optimize for workpieces and improve inspection quality.
- Drive the laser with an Amplifier the same size as a Digital Fiber Amplifier.



Ordering Information

■ Sensor Heads

Sensing method	Focus	Model number	Remarks
Diffuse reflective	Spot		Mounting a Beam Unit (sold separately) allows the use of line and area beams.
	Line	E3C-LD21	This model number is for the set consisting of the E39-P11 mounted to the E3C-LD11.
	Area	E3C-LD31	This model number is for the set consisting of the E39-P21 mounted to the E3C-LD11.
Coaxial retroreflective (with MSR)	Spot (variable)	,	Mounting a Beam Unit (sold separately) allows the use of line and area beams.
	Spot (2.0-mm fixed dia.)	E3C-LR12 (See note.)	

Note: Select a reflector (sold separately) according to the application.

■ Amplifier Units

Amplifier Units with Cables

	Item	Appearance	Appearance Functions		
				NPN output	PNP output
Advanced models	Twin-output models		Area output, self-diagnosis, differential operation	E3C-LDA11	E3C-LDA41
	External-input models		Remote setting, counter, dif- ferential operation	E3C-LDA21	E3C-LDA51
	ATC function	U	ATC (Active Threshold Control)	E3C-LDA11AT	E3C-LDA41AT
	Analog output		Analog output	E3C-LDA11AN	E3C-LDA41AN

Amplifier Units with Connectors

	Item	Appearance	Functions	Model	
				NPN output	PNP output
Advanced models	Twin-output models		Area output, self-diagnosis, differential operation	E3C-LDA6	E3C-LDA8
	External-input models		Remote setting, counter, dif- ferential operation	E3C-LDA7	E3C-LDA9
	ATC function		ATC (Active Threshold Control)	E3C-LDA6AT	E3C-LDA8AT

■ Amplifier Unit Connectors (Order Separately)

Item	Appearance	Cable length	No. of con- ductors	Model
Master Connector		2 m	4	E3X-CN21
Slave Connector			2	E3X-CN22

■ Mobile Console (Order Separately)

Appearance	Model	Remarks
I Sal	E3X-MC11-SV2 (model number of set) (See notes 1 and 2.)	Mobile Console with Head, Cable, and AC adapter provided as accessories
	E3X-MC11-C1-S	Mobile Console
	E3X-MC11-H1	Head
	E39-Z12-1	Cable (1.5 m)

Note 1. Use the E3X-MC11-SV2 Mobile Console for the E3C-LDA-series Amplifier Units. Other Mobile Consoles cannot be used.

■ Accessories (Order Separately) Beam Units

Applicable Sensor Head	Appearance	Focus	Model
E3C-LD11		Line	E39-P11
		Area	E39-P21
E3C-LR11	ð	Line	E39-P31
	Į.	Area	E39-P41

Reflectors

Туре	Appearance	Model
Standard Effective area: 23 × 23 mm		E39-R12
Standard Effective area: 7 × 7 mm	504	E39-R13
Short-distance transparent detection Effective area: 23 × 23 mm		E39-R14
Sheet (cuttable) Effective area: 195 × 22 mm		E39-RS4
Sheet (cuttable) Effective area: 108 × 46 mm		E39-RS5

Specifications

■ Ratings/Characteristics Sensor Heads

Item		Diffuse reflective	e		Coaxial retroref	lective (with MSR)	
	E3C-LD11	E3C-LD21	E3C-LD31	E3C-LR11	E3C-LR11 + E39- P31	E3C-LR11 + E39- P41	E3C-LR12
Light source (emission wavelength)	Red semiconductor laser diode (650 nm), 2.5 mW max. (JIS standard: Class 2, FDA standard: Class II)						1 mW max. (JIS standard Class 1)
Sensing distance	Ständard mode:	mode: 30 to 1,00 30 to 700 mm ed mode: 30 to 29		7 m 5 m 2 m (See note 2.)	1,700 mm, 1,300 mm 700 mm (See note 2.)	900 mm 700 mm 400 mm (See note 2.)	7 m 5 m 2 m (See note 2.)
Beam size (See note 3.)	0.8 mm max. (at distances up to 300 mm)	33 mm (at 150 mm)	33 × 15 mm (at 150 mm)	0.8 mm max. (at distances up to 1,000 mm)	28 mm (at 150 mm)	28 × 16 mm (at 150 mm)	2.0 mm dia. (at distances up to 1,000 mm)
Functions	Variable focal po	oint mechanism (beam size adjust	ment) (See note	4.), optical axis adjusti	ment mechanism (axis	adjustment)
Indicators	LDON indicator:	Green; Operation	n indicator: Oran	ge			
Ambient illumination (receiver side)	3,000 lx (incand	escent lamp)					
Ambient temperature	Operating: -10°	C to 55°C; Storag	ge: -25°C to 70°0	C (with no icing o	r condensation)		
Ambient humidity	Operating/storag	ge: 35% to 85% (with no condensa	ation)			
Vibration resistance (destruction)	10 to 150 Hz wit	h double amplitu	de of 0.7 mm, in	X, Y, and Z direc	tions for 80 min each		
Degree of protection	IEC 60529: IP40)					
Materials	Case and cover: Front surface filt		n	Case and cover Front surface file			
Weight (packed)	Approx. 85 g			Approx. 100 g			

Note 1. Values are sensed for white paper.

2

- 2. These values apply when a E39-R12 Reflector is used. The MSR function is built-in. The reflected light from the object being measured may affect the sensing accuracy, so adjust the threshold value before use.
- 3. The beam radius is the value for the middle measurement distance and indicates a typical value for the middle sensing distance. The radius is defined by light intensity of 1/e² (13.5%) of the central light intensity. Light will extend beyond the main beam and may be affected by conditions surrounding the object being measured.
- 4. The E3C-LR12 has a fixed beam size (the focus point cannot be changed).

The E3X-MC11-SV2 is an upgraded version of the E3X-MC11-S, to which a corresponding Sensor Head is added. (The E3X-MC11-SV2 and E3X-MC11-S are compatible.)

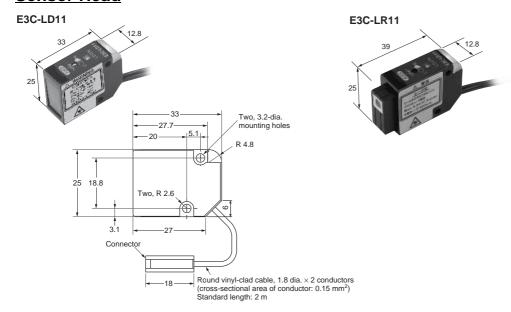
Amplifier Units

Model NPN output E3C-LDA1 E3C-LDA1 E3C-LDA1 E3C-LDA3 E3C-LDA3 E3C-LDA6	-output models	C-output models Analog-output mo		ATC-outp	ut models	Twin-outp	put models	External-in	Туре		
Supprivations		E3C-LDA11A	1	E3C-	E3C-LDA6	E3C-LDA11	-			Model	
Supply voltage	0 0 10 11 11 11 11 11 1	F00 D4 44	500 I DAGAT		E00 D40	E00 D444	F00 D40	E00 D454	DNDtt		
Power consumption 1,080 mW max. (current consumption: 45 mA max. at power supply voltage of 24 VDC)	C-LDA41AN	E3C-LDA41A	E3C-LDA8A1			E3C-LDA41	E3C-LDA9	E3C-LDA51	PNP output	n	ite
Control output Control output Cad gowers supply voltage: 26.4 VPC max: NPNPNP (depends on model) open collector Control output Violage Vi	,					p-p) 10% max	±10%, ripple (12 to 24 VDC		oltage	Supply v
Load current: 50 mA max; residual voltage: 1 V max. Analog output Analog output setting Analog output			age of 24 VDC)	er supply volta	mA max. at po	ısumption: 45 ı	ax. (current cor	1,080 mW ma	tion	nsumpt	Power c
Artalog output Artalog Artalog output Artalog Artalog output Artalog Artalog		tor	del) open collect	pends on mo					F output	ON/OF	
Sponse mode Set	out: 1 to 5 VDC (con- 10 kΩ min.) a con- condition of the condition of th	Voltage output: 1 to 5 N nected load 10 k Ω min Temperature character 0.3% F.S./°C Response time/Repeat Super-high-speed mod 4.0% F.S. High-speed mode: 250 F.S. Standard mode: 1 ms/. High-resolution mode:							output	Analog	put
Figh-speed mode Zou Jis for operation and reset				i	eration and res	100 μs for ope	ration and re-		nigh-speed		sponse
High-resolution mode	· · · · · · · · · · · · · · · · · · ·									<u> </u>	ume
Functions							ation and reset	1 ms for opera	rd mode	Standa	
tion Single edge: Can be set to 250 μs, 500 μs, 1 ms, 10 ms, or 100 ms. Double edge: Can be set to 500 μs, 1 ms, 2 ms, 20 ms, or 200 ms. Timer function Select from OFF-delay, ON-delay, or one-shot timer. 1 ms to 5 s (1 to 20 ms set in 1-ms increments, 20 to 200 ms set in 10-ms increments, 200 ms to 1 s set in 100-m and 1 to 5 s set in 1-s increments) Zero-reset Negative values can be displayed. Initial reset Settings can be returned to defaults as required. Mutual interference prevention Counter Switchable between up counter and down counter. Set count: 0 to 9,999,999 I/O settings External input setting (Select from channel 2 output, area output, used in 100-ms or ocunter reset.) Digital display Select from digital incident level + threshold or six other patterns. Display orientation Switching between normal/reversed display is possible. Ambient temperature range Operating: Groups of 1 to 2 Amplifiers: -25°C to 55°C Groups of 3 to 10 Amplifiers: -25°C to 55°C Groups of 11 to 16 Amplifiers: -25°C to 45°C Storage: -30°C to 70°C (with no icing) Ambient humidity range Operating and storage: 35% to 85% (with no condensation) Insulation resistance Destruction: 10 to 150 Hz, 0.7-mm double amplitude for 80 min each in X, Y, and Z directions Shock resistance Destruction: 10 to 150 Hz, 0.7-mm double amplitude for 80 min each in X, Y, and Z directions Degree of protection Prewired cable or wire-reducing connector Weight (packed state) With prewired cable or wire-reducing connector Weight (packed state) With prewired cable or wire-reducing connector							ation and reset	4 ms for opera	solution		
Timer function Select from OFF-delay, ON-delay, or one-shot timer. 1 ms to 5 s (1 to 20 ms set in 1-ms increments, 20 to 200 ms set in 10-ms increments, 200 ms to 1 s set in 100-m and 1 to 5 s set in 1-s increments) Zero-reset Negative values can be displayed. Initial reset Settings can be returned to defaults as required. Mutual interference prevention Counter Switchable between up counter and down counter. Set count: 0 to 9,999,999 I/O settings External input setting (Select from channel 2 output, area out put, or self-diagnosis.) or counter reset.) Digital display Select from digital incident level + threshold or six other patterns. Display orientation Ambient temperature range Operating: Groups of 1 to 2 Amplifiers: -25°C to 55°C Groups of 3 to 10 Amplifiers: -25°C to 50°C Groups of 11 to 16 Amplifiers: -25°C to 50°C Storage: -30°C to 70°C (with no icing) Ambient humidity range Destruction: 10 to 150 Hz, 0.7-mm double amplitude for 80 min each in X, Y, and Z directions Shock resistance Destruction: 500 m/s², 3 times each in X, Y, Z directions Weight (packed state) With prewired cable: Approx. 100 g With wire-reducing connector: Approx. 55 g		Single edge: Can be set to 250 μs, 500 μs, 1 ms, 10 ms, or 100 ms.					ntial detec-				
Initial reset Settings can be returned to defaults as required.	n 100-ms increments,	ms to 1 s set in 100-ms i	ncrements, 200 r	set in 10-ms i	hot timer. ts, 20 to 200 m	1-ms incremen	to 20 ms set in	1 ms to 5 s (1	unction	Timer fo	
Mutual interference prevention Possible for up to 10 Units. (See note.)						layed.	es can be disp	Negative valu	set	Zero-re	
Prevention Switchable between up counter and down counter. Set count: 0 to 9,999,999 Set count: 0 to 9,999,					uired.	defaults as req	oe returned to	Settings can b	eset	Initial re	
Counter and down counter. Set count: 0 to 9,999,999						See note.)	p to 10 Units. (Possible for u			
lect from teaching, power tuning, zero reset, light OFF, or counter reset.) channel 2 output, area output, self-diagnosis.) self-diagnosis, or ATC error output.) age can be adjusted put, or self-diagnosis.) self-diagnosis, or ATC error output.)							lown counter.	counter and d	r	Counte	
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Ambient temperature range Operating: Groups of 1 to 2 Amplifiers: –25°C to 55°C Groups of 3 to 10 Amplifiers: –25°C to 50°C Groups of 11 to 16 Amplifiers: –25°C to 45°C Storage: –30°C to 70°C (with no icing) Ambient humidity range Operating and storage: 35% to 85% (with no condensation) Insulation resistance 20 MΩ at 500 VDC Dielectric strength 1,000 VAC at 50/60 Hz for 1 min. Vibration resistance Destruction: 10 to 150 Hz, 0.7-mm double amplitude for 80 min each in X, Y, and Z directions Shock resistance Destruction: 500 m/s², 3 times each in X, Y, Z directions Degree of protection IP50 (IEC 60529) Connection method Prewired cable or wire-reducing connector Weight (packed state) With prewired cable: Approx. 100 g With wire-reducing connector: Approx. 55 g				terns.	d or six other p	evel + threshol	igital incident le	Select from di		splay	Digital d
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Degree of protection IP50 (IEC 60529) Connection method Prewired cable or wire-reducing connector Weight (packed state) With prewired cable: Approx. 100 g With wire-reducing connector: Approx. 55 g		ctions	K, Y, and Z direc	min each in 2	amplitude for 8	.7-mm double	0 to 150 Hz, 0	Destruction: 1	nce	resista	Vibration
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Weight (packed state) With prewired cable: Approx. 100 g With wire-reducing connector: Approx. 55 g	·						529)	IP50 (IEC 605	ction	of protec	Degree
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Materia Cons. Delukutulana taranhthalata (DRT)					9				state)	packed :	Weight (
						PBT)	terephthalate (Polybutylene		Case	Materi-
als Cover Polycarbonate							Э	Polycarbonate		Cover	ais

Note: Communications are disabled if super-high-speed mode is selected, and the mutual interference prevention function and the communications function for the Mobile Console will not function.

Dimensions

Sensor Head



Reflector

E39-R12/-R14







Amplifier Unit



This document provides information mainly for selecting suitable models. Please read the Instruction Sheet carefully for information that the user must understand and accept before purchase, including information on warranty, limitations of liability, and precautions.

ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.

To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.

Cat. No. E338-E1-04

In the interest of product improvement, specifications are subject to change without notice.

OMRON Corporation

Industrial Automation Company

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- Systems, machines, and equipment that could present a risk to life or property.

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Disclaimers

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Cat. No. E338-E1-04

OMRON Corporation Industrial Automation Company

In the interest of product improvement, specifications are subject to change without notice.



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

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- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов:
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
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- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
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- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

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- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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Электронная почта: org@eplast1.ru

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