OMRON

Distance-settable Photoelectric Sensors

E3AS Series

E3AS Series changes the "way of using" reflective photoelectric sensors

- Complete lineup of photoelectric sensors for various applications
- Teaching method allows anyone to set optimal threshold values
- Antifouling coating prevents contamination on the sensing surface
- Ecolab certified in addition to IP67/69K/67G protection
- All models with IO-Link connectivity (NPN type excluded)





For the most recent information on models that have been certified for safety standards, refer to your OMRON website.

Refer to Safety Precautions on page 38.

Table of Contents

Ordering Information page	e 18
Ratings and Specifications page	e 24
Engineering Data page	e 26
I/O Circuit Diagrams/ Timing Charts page	e 33
Nomenclature page	e 35
Safety Precautions page	e 38
Dimensions	e 40

E3AS Series Ordering Information

E3AS-HL models [Refer to Dimensions on page 40]

Line beam type

Line beam type						
			1	Model		
Connection method	Sensing distance (white paper)	Output	NPN output	PNP output		
	(mino papor)	IO-Link baud rate		COM3 (230.4 kbps) *3		
Pre-wired (2 m) *1	35 mm	500 mm	E3AS-HL500LMN 2M	E3AS-HL500LMT 2M		
M8 Connector			E3AS-HL500LMN M3	E3AS-HL500LMT M3		
M12 Pre-wired Smartclick Connector (0.3m) *2			E3AS-HL500LMN-M1TJ 0.3M	E3AS-HL500LMT-M1TJ 0.3M		
Pre-wired (2 m) *1	35 mm 150 mm	1	E3AS-HL150LMN 2M	E3AS-HL150LMT 2M		
M8 Connector			E3AS-HL150LMN M3	E3AS-HL150LMT M3		
M12 Pre-wired Smartclick Connector (0.3m) *2			E3AS-HL150LMN-M1TJ 0.3M	E3AS-HL150LMT-M1TJ 0.3M		

Red light

Spot type

			Model		
Connection method	Sensing distance (white paper)	Output	NPN output	PNP output	
	(millo paper)	IO-Link baud rate		COM3 (230.4 kbps) *3	
Pre-wired (2 m) *1	35 mm	500 mm	E3AS-HL500MN 2M	E3AS-HL500MT 2M	
M8 Connector			E3AS-HL500MN M3	E3AS-HL500MT M3	
M12 Pre-wired Smartclick Connector (0.3m) *2	ا لا ل		E3AS-HL500MN-M1TJ 0.3M	E3AS-HL500MT-M1TJ 0.3M	
Pre-wired (2 m) *1	35 mm 150 mm		E3AS-HL150MN 2M	E3AS-HL150MT 2M	
M8 Connector			E3AS-HL150MN M3	E3AS-HL150MT M3	
M12 Pre-wired Smartclick Connector (0.3m) *2			E3AS-HL150MN-M1TJ 0.3M	E3AS-HL150MT-M1TJ 0.3M	

*1. Models with 5-m cable length are also available with "5M" suffix. (Example: E3AS-HL500MN 5M/E3AS-HL500LMN 5M)
 *2. M8 Pre-wired Connector Models are also available. When ordering, add "-M3J 0.3M" to the end of the model number

(e.g., E3AS-HL500MN-M3J 0.3M/E3AS-HL500LMN-M3J 0.3M).

***3.** COM2 (38.4kbps) Models are also availavble.

Infrared light

E3AS-F models [Refer to Dimensions on page 41] Metal case type

			Model			
Connection method	Sensing distance (white paper)	Output	NPN output	PNP output		
	(white paper)	IO-Link baud rate		COM3 (230.4 kbps) *3		
Pre-wired (2 m) *1	50 mm	1,500 mm	E3AS-F1500IMN 2M	E3AS-F1500IMT 2M		
M8 Connector			E3AS-F1500IMN M3	E3AS-F1500IMT M3		
M12 Pre-wired Smartclick Connector (0.3m) *2		ł	E3AS-F1500IMN-M1TJ 0.3M	E3AS-F1500IMT-M1TJ 0.3M		
Pre-wired (2 m) *1	50 mm	1,000 mm	E3AS-F1000IMN 2M	E3AS-F1000IMT 2M		
M8 Connector			E3AS-F1000IMN M3	E3AS-F1000IMT M3		
M12 Pre-wired Smartclick Connector (0.3m) *2		ł	E3AS-F1000IMN-M1TJ 0.3M	E3AS-F1000IMT-M1TJ 0.3M		

Plastic case type

			Model		
Connection method	Sensing distance (white paper)	Output	NPN output	PNP output	
	(IO-Link baud rate		COM3 (230.4 kbps) *3	
Pre-wired (2 m) *1	50 mm	1,500 mm	E3AS-F1500IPN 2M	E3AS-F1500IPT 2M	
M8 Connector			E3AS-F1500IPN M3	E3AS-F1500IPT M3	
M12 Pre-wired Smartclick Connector (0.3m) *2		1	E3AS-F1500IPN-M1TJ 0.3M	E3AS-F1500IPT-M1TJ 0.3M	
Pre-wired (2 m) *1	50 mm	1,000 mm	E3AS-F1000IPN 2M	E3AS-F1000IPT 2M	
M8 Connector			E3AS-F1000IPN M3	E3AS-F1000IPT M3	
M12 Pre-wired Smartclick Connector (0.3m) *2		ł	E3AS-F1000IPN-M1TJ 0.3M	E3AS-F1000IPT-M1TJ 0.3M	

E3AS-L models [Refer to Dimensions on page 42]

			Mc	odel
Connection method	Sensing distance (white paper)	Output	NPN output	PNP output
	(IO-Link baud rate		COM3 (230.4 kbps) *3
Pre-wired (2 m) *1	10 mm	200 mm	E3AS-L200MN 2M	E3AS-L200MT 2M
M8 Connector			E3AS-L200MN M3	E3AS-L200MT M3
M12 Pre-wired Smartclick Connector (0.3m) *2			E3AS-L200MN-M1TJ 0.3M	E3AS-L200MT-M1TJ 0.3M
Pre-wired (2 m) *1	10 mm 80 m	m	E3AS-L80MN 2M	E3AS-L80MT 2M
M8 Connector			E3AS-L80MN M3	E3AS-L80MT M3
M12 Pre-wired Smartclick Connector (0.3m) *2			E3AS-L80MN-M1TJ 0.3M	E3AS-L80MT-M1TJ 0.3M

*1. Models with 5-m cable length are also available with "5M" suffix. (Example: E3AS-F1500IMN 5M/E3AS-F1500IPN 5M/E3AS-L200MN 5M)
*2. M8 Pre-wired Connector Models are also available. When ordering, add "-M3J 0.3M" to the end of the model number (e.g., E3AS-F1500IMN-M3J 0.3M/E3AS-F1500IPN-M3J 0.3M/E3AS-L200MN-M3J 0.3M).

***3.** COM2 (38.4kbps) Models are also availavble.

Nomenclature

Safety Precautions

Red light

E3AS Series Ratings and Specifications

E3AS-HL models

Sensing method		Sensing method	Triangulation						
Ν	Nodel	NPN Output	E3AS-HL500MN	E3AS-HL500LMN	E3AS-HL150MN	E3AS-HL150LMN			
Item		PNP Output/COM3	E3AS-HL500MT	E3AS-HL500LMT	E3AS-HL150MT	E3AS-HL150LMT			
Sensing dis	tance	*1	35 mm to the set distance		35 mm to the set distance				
Setting rang	ge *1		35 to 500 mm		35 to 150 mm				
Standard detectable difference *1			35 to 180 mm: 9 mm 180 to 300 mm: 18 mm 300 to 400 mm: 30 mm 400 to 500 mm: 45 mm at 10 m sec		35 to 50 mm: 1 mm 50 to 100 mm: 2 mm 100 to 150 mm: 4 mm at 10 m sec				
Display min	imum	unit value	1 mm		0.1 mm				
Spot size (reference value) *2		ce value) *2	2.5 mm × 1.5 mm at distance of 500 mm	18 mm × 1.5 mm at distance of 500 mm	2.5 mm × 1.3 mm at distance of 150 mm	8 mm × 1.3 mm at distance of 150 mm			
Light source	e (wav	elength)	Red laser (660 nm), Class1 (I	EC/EN60825-1:2014)					
Power supp	oly volt	age	10 to 30 VDC (including 10%	ripple (p-p)), Class2					
Current con	sumpt	tion	100 mA max.						
Control output			Load power supply voltage 30 VDC max. (Class2), the total load current of the two outputs is 100 mA max. Residual voltage (Load current 10 mA max.: 1 VDC max., Load current 10 to 100 mA: 2 VDC max.) Open-collector output (NPN/PNP output depending on model) N.O. (Normally Open) / N.C. (Normally Close) selectable						
Input/		NPN	OUTPUT 1: NO (Normally open), OUTPUT 2: NC (Normally closed)						
ουιραι		PNP/COM3	OUTPUT 1: NO (Normally open)/COM , OUTPUT 2: NC (Normally closed)						
External input			Laser OFF / Teaching / Zero reset selectable NPN ON time: 0 V short-circuit or 1.5 V or less, OFF time: Power supply voltage short-circuit or open PNP ON time: Power supply voltage short-circuit or within power supply voltage - 1.5 V, OFF time: 0 V short-circuit or open						
Response ti	ime		1.5 ms / 10 ms / 50 ms select	able					
Threshold s	setting	method	Teaching method / Manual Op	perations / IO-Link communica	tions				
Mutual inter	ferenc	e prevention	4 units max. (when using the	mutual interference prevention	function)				
Ambient illumination			Receiver surface illuminance: Incandescent lamp: 20,000 lx max., Sunlight: 25,000 lx max. at distance of 250 mm Incandescent lamp: 5,000 lx max., Sunlight: 10,000 lx max. at distance of 500 mm						

*1. Measured with OMRON's standard workpiece (White ceramic).

*2. Defined by D4o method at the maximum sensing distance. Detection may be influenced if there is light leakage outside the defined region and the surroundings of the target object have a high reflectance in comparison to the target object. Also, when detecting a workpiece that is smaller than the spot size, a correct value may not be obtained.

E3AS-F models

Sensing method			TOF (Time of flight)				
		Туре	Metal case (⊡: M),	Plastic case (: P)			
1	Model	NPN output	E3AS-F1500I⊟N	E3AS-F1000I⊡N			
Item		PNP output/ COM3	E3AS-F1500I□T	E3AS-F1000I⊟T			
Sensing dis	stance		50 mm to the set distance (White paper or black paper 200 \times 200 mm)	50 mm to the set distance (White paper or black paper 200 \times 200 mm)			
Setting range			100 to 1,500 mm (White paper 200 × 200 mm) 100 to 1,000 mm (Black paper 200 × 200 mm)	100 to 1,000 mm (White paper 200 × 200 mm) 100 to 500 mm (Black paper 200 × 200 mm)			
Spot diame	eter (ref	erence value)	95 mm dia. (at distance of 1,000 mm)				
Differential travel			15% max. of set distance (Set distance 200 mm min.)				
Reflectivity characteristic (black/white error)			10% max. of set distance (Set distance 200 mm min.)				
Light sourc	e (wav	elength)	Infrared laser (940 nm) Class1 (IEC/EN60825-1:2014)				
Power supp	oly volt	age	10 to 30 VDC (including 10% ripple (p-p)), Class2				
Current cor	nsumpt	tion	30 mA max.				
Control output		rol output	Load power supply voltage: 30 VDC max., Class2, Load current: 100 mA max. (Residual voltage: Load current of less than 10 mA: 1 V max. Load current of 10 to 100 mA: 2 V max.) Open-collector output (NPN/PNP output depending on model)				
output NPN		NPN	OUTPUT 1: NO (Normally open), OUTPUT 2: NC (Normally closed)				
PNP/COM3		PNP/COM3	OUTPUT 1: NO (Normally open)/COM , OUTPUT 2: NC (N	lormally closed)			
Response t	ime	•	Operate or reset: 150 ms max.	Operate or reset: 90 ms max.			
Threshold s	setting	method	Teaching method/IO-Link communications				
Ambient illu	uminati	ion	Incandescent lamp: 3,000 lx max., Sunlight: 10,000 lx max.				

E3AS-L models

Sensing method		Sensing method	Triangulation				
Ν	Model NPN Output		E3AS-L200MN	E3AS-L80MN			
Item		PNP Output/COM3	E3AS-L200MT	E3AS-L80MT			
Sensing dis	stance		10 mm to the set distance (White paper or black paper 100 >	< 100 mm)			
Setting rang	ge		40 to 200 mm (White paper or black paper 100 × 100 mm)	20 to 80 mm (White paper or black paper 100 × 100 mm)			
Spot diamet	ter (refei	rence value)	25 x 25 mm at distance of 200 mm	4 mm dia. (at distance of 80 mm)			
Differential travel			10% max. of set distance	White paper: 2% max. of set distance Black paper: 5% max. of set distance			
Reflectivity characteristic (black/white error)		tic (black/white error)	10% max. of set distance	5% max. of set distance			
Light source (wavelength)		ength)	Red LED (624 nm)	Red LED (650 nm)			
Power supp	oly voltag	ge	10 to 30 VDC (including 10% ripple (p-p)), Class2				
Current con	sumptio	on	35 mA max.				
Control output		l output	Load power supply voltage: 30 VDC max., Class2, Load current: 100 mA max. (Residual voltage: Load current of less than 10 mA: 1 V max. Load current of 10 to 100 mA: 2 V max.) Open-collector output (NPN/PNP output depending on model)				
output NPN		NPN	OUTPUT 1: NO (Normally open), OUTPUT 2: NC (Normally closed)				
PNP/COM3 OUTPUT 1: NO (Normally open)/COM , OUTPUT 2: NC (Normally closed)				lormally closed)			
Response ti	Response time Operate or reset: 1 ms max.						
Threshold s	setting m	nethod	Teaching method/IO-Link communications				
Ambient illu	uminatio	n	Incandescent lamp: 3,000 lx max., Sunlight: 10,000 lx max.				

Common to E3AS series

Series		E3AS-HL	E3AS-F	E3AS-L		
Protection circu	its	Power supply reverse polarity protection	n, Output short-circuit protection, and Out	tput reverse polarity protection		
Ambient temperature range		Operating: -10 to 50°C, Storage: -25 to 70°C (with no icing or condensation)	Operating: -20 to 55°C, Storage: -40 to 70°C (with no icing or condensation)	Operating: -25 to 55°C, Storage: -40 to 70°C (with no icing or condensation)		
Ambient humidi	ty range	Operating: 35% to 85%, Storage: 35% t	to 95% (with no condensation)	•		
Insulation resist	ance	20 M Ω min. at 500 VDC				
Dielectric streng	th	1,000 VAC, 50/60 Hz for 1 min				
Vibration resista	ince	10 to 55 Hz with a 1.5-mm double ampl	itude for 2 hours each in X, Y, and Z dire	ctions		
Shock resistanc	e	500 m/s ² for 3 times each in X, Y, and \overline{z}	2 directions			
Degree of protect	tion	IP67 (IEC60529) and IP67G *1 (JIS C 0	920 Annex 1), IP69K (ISO20653)			
Indicators		OLED Display (White), Power/ Communication indicator (Green*), Operation indicator (Orange) * IO-Link Communication mode: blinking	Operation indicator (orange), Stability & * IO-Link Communication mode: blinking	Communication indicator (green*) g		
Connection met	hod	Pre-wired (standard cable length: 2 m), I	M8 Connector, M12 Pre-wired Smartclick	Connector (standard cable length: 0.3m)		
	Pre-wired (2 m)	Approx. 180 g/approx. 110 g	Metal case type: Approx. 135 g/approx. 90 g Plastic case type: Approx. 115 g/approx. 70 g	Approx. 135 g/approx. 90 g		
Weight (packed state/ Sensor only)	M8 Connector Approx. 120 g/approx. 50 g		Metal case type: Approx. 75 g/approx. 30 g Plastic case type: Approx. 60 g/approx. 15 g	Approx. 75 g/approx. 30 g		
	M12 Pre-wired Smartclick Connector (0.3m)	Approx. 150 g/approx. 80 g	Metal case type: Approx. 95 g/approx. 50 g Plastic case type: Approx. 75 g/approx. 30 g	Approx. 95 g/approx. 50 g		
Materials	Case	Stainless steel (SUS316L)	Metal case type: Main unit/mounting part/connector part Stainless steel (SUS316L) Plastic case type: Main unit Polybutylene terephthalate (PBT) / polycarbonate (PC), Mounting part/connector part Nickel-plated brass	Stainless steel (SUS316L)		
	Lens cover and Display	Methacrylic resin (PMMA) (Lens cover:	Antifouling coating)	·		
	Indicator	Polyamide 11 (PA11)	Metal case type: Polyamide 11 (PA11) Plastic case type: Polyethersulfone (PES)	Polyamide 11 (PA11)		
Main IO-Link functions		Operation mode switching between NO and NC, execution of teaching (2-point teaching, Background teaching), setup of the threshold, timer function of the control output and timer time selecting, Restore Factory Settings, Key Lock (Unlock, Lock, Lock (No Button)), monitor output* (Detection level, Incident light level) * Only for E3AS-HL and E3AS-F				
	IO-Link specification	Ver. 1.1				
IO-Link	Baud rate	COM3 (230.4 kbps)				
Communication specifications	Data length	PD size: 4 bytes, OD size: 1 byte (M-se	quence type: TYPE_2_V)	PD size: 1 byte, OD size: 1 byte (M-sequence type: TYPE_2_1)		
	Minimum cycle time	COM3: 1.2 ms				
Accessories		Instruction manual, compliance sheet, index list (attached for IO-Link type only) E3AS-HL: FDA certification label and Warning label E3AS-F: FDA certification label Note: Mounting Brackets must be ordered separately				

*1. The IP67G is the degree of protection which is defined according to the JIS (Japanese Industrial Standards).
 The IP67 indicates the same level of protection as defined by the IEC, and the G indicates that a device has resistance to oil.

25

I/O Circuit Diagrams/ Timing Charts

E3AS-HL models

NPN Output

Model	Timing chart					C	Dutput circuit	
	Single Point Mode [Single	e]			Using	g Pin2 (white	wire) as output	
	Rated sensing distance range Threshold					+V 1 Brown OUT14 Black [OUT22 White OV 3 Blue	Load Load Load Load Load Load Load Load	
	indicator (green)	OFF					routes must be 100 mA or less.	
	Operation indicator (orange)	ON OFF			Using	g Pin2 (white	wire) as external input	
	Control output 1	ON OFF				+V DBrown	•	
	Control output 2 *	ON OFF				OUT1 ^{Black}	Load 100mA 10 to 30 VDC	
	Window BGS mode [Wind	dow B	GS]			0V 3 Blue	F External Input	
	ſ		Rated sensing d	istance range	_			
		o	Near-side F	ar-side	E	External Input	NPN	
	×						Power supply voltage	
E3AS-HL500⊟N⊟ E3AS-HL150⊟N⊡	Power/Communication indicator (green) Operation indicator (orange) Control output 1 Control output 2 *	ON OFF ON OFF ON OFF ON				Con M12 Pre-wire Smartclick C	short-circuit or open unector Pin Arrangement unector M8 Connector (2)(4) (1)(3)	
	Window FGS mode [Wind	low F	GS]			_	_	
			Rated sensing of Near-side F threshold the the threshold the	istance range Far-side nreshold				
	Power/Communication indicator (green) Operation indicator (orange)	ON OFF ON OFF						
	Control output 1	ON						
	Control output 2 *	OFF ON OFF						

* The initial value of control output 2 is reverse of control output 1.



***1.** Standard I/O mode is used as PNP ON/OFF output.

*2. IO-Link Communication mode is used for communications with the IO-Link Master. C/Q performs IO-Link communications. Sensor output DO performs ON/OFF output.

Single Point Mode [Single]

	Timing charts	
Output mode	Rated sensing distance range Threshold	 *1. The initial value of control output 2 is reverse of control output 1. *2. The timer function of the control output can be set up by the IO-Link communications. (It is able to select ON delay, OFF delay, or one-shot function and select a timer time of 1 to 9,999 ms (T).)
		ON delay OFF delay One Shot
Standard I/O mode (SIO mode)	Power/Communication ON indicator (green) OFF Operation indicator (orange) OFF Control output 1 *2 ON Control output 2 *1, *2 ON OFF	Sensing Present NO OFF 0 NC OFF 0
IO-Link Communication mode (COM mode)	Power/Communication Flashing indicator (green) (1 second cycle) Operation indicator (orange) ON OFF Communication output 1 Control output 2 *1, *2 ON OFF	

Window BGS mode [Window BGS]

	Timing charts	
Output mode	Rated sensing distance range Near-side Far-side threshold threshold	
Standard I/O mode (SIO mode)	Power/Communication indicator (green) ON OFF Operation indicator (orange) ON OFF Control output 1 *2 ON OFF Control output 2 *1, *2 ON OFF	
IO-Link Communication mode (COM mode)	Power/Communication Flashing indicator (green) (1 second cycle) Operation indicator (orange) OFF Communication output 1 Control output 2 *1, *2 OFF	

- *1. The initial value of control output 2 is reverse of control output 1.
- ***2.** The timer function of the control output can be set up by the IO-Link communications. (It is able to select ON delay, OFF delay, or one-shot function and select a timer time of 1 to 9,999 ms (T).)



Please contact your OMRON sales representative regarding the IO-Link setup file (IODD file).

Window FGS mode [Window FGS]

	Timing charts		
Output mode	Rated sensing distance range Near-side Far-side threshold threshold		
Standard I/O mode (SIO mode)	Power/Communication indicator (green) ON OFF Operation indicator (orange) ON OFF Control output 1 *2 ON OFF Control output 2 *1, *2 ON OFF		
IO-Link Communication mode (COM mode)	Power/Communication Flashing indicator (green) (1 second cycle) Operation indicator (orange) ON OFF Communication output 1 Control output 2 *1, *2 ON OFF		

- *1. The initial value of control output 2 is reverse of control output 1.
- *2. The timer function of the control output can be set up by the IO-Link communications. (It is able to select ON delay, OFF delay, or one-shot function and select a timer time of 1 to 9,999 ms (T).)

ON delay	OFF delay	One Shot
Sensing object Not NO ON 1 OFF 0 OFF 0	Sensing Present object Not NO ON 1 OFF 0 OFF 0 OFF 0	Sensing Present Not Not OFF 0 NC OFF 0

Please contact your OMRON sales representative _ regarding the IO-Link setup file (IODD file).

Note: Shown above are the factory settings. Refer to the index list for the default settings at time of shipment from factory. PNP/COM output logic can be reversed by IO-Link communication.

The operation indicator (orange) lights up when control output 1 is ON or communication output is 1.

Nomenclature



Ordering Information

E3AS-F models

NPN Output



* The initial value of control output 2 is reverse of control output 1.

PNP Output



*1. Standard I/O mode is used as PNP ON/OFF output.

*2. IO-Link Communication mode is used for communications with the IO-Link Master. C/Q performs IO-Link communications. Sensor output DO performs ON/OFF output.

	Timing charts	
Output mode	Unstable NEAR	 *1. The initial value of control output 2 is reverse of control output 1. *2. The timer function of the control output can be set up by the IO-Link communications. (It is able to select ON delay, OFF delay, or one-shot function and select a
Standard I/O mode (SIO mode)	Stability&Communication indicator (green) ON OFF Operation indicator (orange) ON OFF Control output 1 *2 ON OFF Control output 2 *1, *2 ON OFF	timer time of 1 to 9,999 ms (T).)
IO-Link Communication mode (COM mode)	Stability& Communication indicator (green) Flashing (1 second cycle) Operation indicator (orange) ON OFF Communication output 1 Control output 2 *1, *2 OFF	Please contact your OMRON sales representative regarding the IO-Link setup file (IODD file).

Note: Shown above are the factory settings. Refer to the index list for the default settings at time of shipment from factory. PNP/COM output logic can be reversed by IO-Link communication.

The operation indicator (orange) lights up when control output 1 is ON or communication output is 1.

Nomenclature

E3AS-F1500□ E3AS-F1000□

Operation indicator (orange) Teach button Stability&Communication indicator (green)

Note: The indicators work differently depending on sensor status.

E3AS-L models

NPN Output



***1.** Turns off when there is insufficient margin for incident light. In that case, place the workpiece closer to ensure sufficient receiving light intensity. ***2.** The initial value of control output 2 is reverse of control output 1.

PNP Output



*1. Standard I/O mode is used as PNP ON/OFF output.

*2. IO-Link Communication mode is used for communications with the IO-Link Master. C/Q performs IO-Link communications. Sensor output DO performs ON/OFF output.

	Timing charts	*1 Turns off when there is insufficient margin for insident
Output mode	Threshold Stable NEAR Stable FAF	 *1. Furths on when there is insufficient margin for incident highly for incident light. In that case, place the workpiece closer to ensure sufficient receiving light intensity. *2. The initial value of control output 2 is reverse of control output 1. *3. The timer function of the control output 2 can be set up
Standard I/O mode (SIO mode)	Stability&Communication ON indicator (green) *1 OFF Operation indicator (orange) ON	by the IO-Link communications. (It is able to select ON delay, OFF delay, or one-shot function and select a timer time of 1 to 9,999 ms (T).)
		ON delay OFF delay One Shot
	Control output 1 *3 OFF	Sensing Present Sensing Present object Not object Not
	Control output 2 *2 ON OFF	present Tr+ present Tr+ NO NO 1 Tr+ NO ON 1 Tr+ NO 0 1
IO-Link Communication mode (COM mode)	Stability& Flashing Communication (1 second cycle) indicator (green) ON Operation indicator (orange) OFF	Please contact your OMRON sales representative regarding the IO-Link setup file (IODD file).
	Communication output 0	
	Control output 2 *2 OFF	

Note: Shown above are the factory settings. Refer to the index list for the default settings at time of shipment from factory. PNP/COM output logic can be reversed by IO-Link communication.

The operation indicator (orange) lights up when control output 1 is ON or communication output is 1.

Nomenclature

E3AS-L200□ E3AS-L80□

Operation indicator (orange) Teach button

Stability&Communication indicator (green)



Note: The indicators work differently depending on sensor status.

37