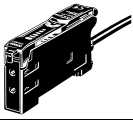
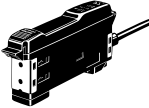




Ordering Information

Amplifier Units



Pre-wired

Item	Shape	Control output	Model	
			NPN output	PNP output
Standard models		ON/OFF output	E3X-NA11	E3X-NA41
High-speed detection			E3X-NA11F	E3X-NA41F
Mark-detecting models			E3X-NAG11	E3X-NAG41
Water-resistant models			E3X-NA11V	E3X-NA41V

Connector type

Item	Shape	Applicable Connector (order separately)		Control output	Model	
		Master	Slave		NPN output	PNP output
Standard models		Master E3X-CN11	Slave E3X-CN12	ON/OFF output	E3X-NA6	E3X-NA8
Water-resistant models (M8 Connector)		XS3F-M421-40□-A XS3F-M422-40□-A			E3X-NA14V	E3X-NA44V

Amplifier Units Connectors (Order Separately) Note: Stickers for Connectors are included as accessories.



Item	Shape	Cable length	No. of conductors	Model
Master connector		2 m	3	E3X-CN11
Slave connector			1	E3X-CN12

Precautions for ordering the connector type
Refer to the following tables when placing an order. Basically, Amplifier Units and connectors are sold separately.
Please place an order after referring to the combination given below.

Amplifier Units			Applicable Connector (order separately)	
Type	NPN	PNP	Master connector	Slave connector
Standard	E3X-NA6	E3X-NA8	E3X-CN11 (3 wires)	E3X-CN12 (1 wire)

When Using 5 Amplifier Units
Amplifier Units (5 Units) + 1 Master Connector + 4 Slave Connectors



Sensor I/O Connectors (Order separately)

Size	Cable type	Shape	Cable length	Model	
M8	Standard cable	Straight 	2 m	4 conductors	XS3F-M421-402-A
			5 m		XS3F-M421-405-A
		L-shaped 	2 m		XS3F-M422-402-A
			5 m		XS3F-M422-405-A


Note: Refer to page NB-6 for details.

Accessories (Order Separately)

Mounting Brackets

Shape	Applicable type	Model	Quantity
	E3X-NA□ E3X-NA□F E3X-NAG□	E39-L143	1
	E3X-NA□V	E39-L148	

End Plate

Shape	Model	Quantity
	PFP-M	1

Rating/performance

Amplifier Units

Item	Model	Type	Pre-wired				Connector type	
			Standard models	High-speed de- tection models	Mark-detecting models	Water-resistant models	Standard models	Water-resistant mod- els (M8 Connector)
			NPN output	E3X-NA11	E3X-NA11F	E3X-NAG11	E3X-NA11V	E3X-NA6
PNP output	E3X-NA41	E3X-NA41F	E3X-NAG41	E3X-NA41V	E3X-NA8	E3X-NA44V		
Light source (wave length)	Red LED (680 nm)		Green LED (520 nm)	Red LED (680 nm)				
Power supply volt- age	12 to 24 VDC ±10%, ripple (p-p): 10% max.							
Current consumption	35 mA max.	35 mA max. (at power supply voltage 24 VDC)	35 mA max.					
Control output	Load current 50 mA (residual voltage 1 V max. each) Open collector output type (depends on the NPN/PNP out- put format) Light-ON/Dark-ON switch selectable							
Response time	Operation or re- set: 200 s max. *	Operating: 20 s max. Reset: 30 s max.	200 s max. for operation and reset respectively (See note.)					
Sensitivity adjust- ment	8-turn endless adjuster (with indicator)							
Protective circuits	Reverse polarity protection, out- put short-circuit protection, mutu- al interference prevention (opti- cally synchro- nized)	Reverse polarity protection, out- put short-circuit protection	Reverse polarity protection, output short-circuit protection, mutual interfer- ence prevention (optically synchronized)					
Timer function	OFF-delay timer: 40 ms (fixed)							
Ambient illuminance	Incandescent lamp: 10,000 lux max. Sunlight: 20,000 lux max.							
Ambient temperature	Operating: Groups of 1 to 3 Amplifiers: -25 to +55°C, Groups of 4 to 11 Amplifiers: -25 to +50°C, Groups of 12 to 16 Amplifiers: -25 to +45°C Storage: -30 to +70°C (with no icing and condensation)							
Ambient humidity	Operating/Storage: 35% to 85% RH (with no condensation)							
Insulation resistance	20 M min. at 500 VDC							
Dielectric strength	1,000 VAC at 50/60 Hz for 1 minute					500 VAC at 50/60 Hz for 1 minute		
Vibration resistance	10 to 55 Hz with a 1.5 mm double amplitude for 2 hrs each in X, Y and Z directions							
Shock resistance	Destruction: 500 m/s ² for 3 times each in X, Y, and Z directions							
Protective structure	IEC 60529 IP50 (with Protective Cover attached)			IEC 60529 IP66 (with Protective Cover attached)	IEC 60529 IP50 (with Protective Cover attached)	IEC 60529 IP66 (with Protective Cover attached)		
Connection method	Pre-wired models (standard length: 2 m)				Connector type	M8 connector		
Weight (Packed state)	Approx. 100 g			Approx. 110 g	Approx. 55 g	65 g		
Material	Case	PBT (polybutylene terephthalate)						
	Cover	Polycarbonate		Polyethersul- fone (PES)	Polycarbonate	Polyethersul- fone (PES)		
Accessories	Instruction manual							

* If 8 or more Units are installed side-by-side, the response time will be 350 s max.