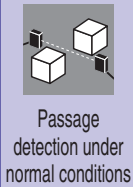
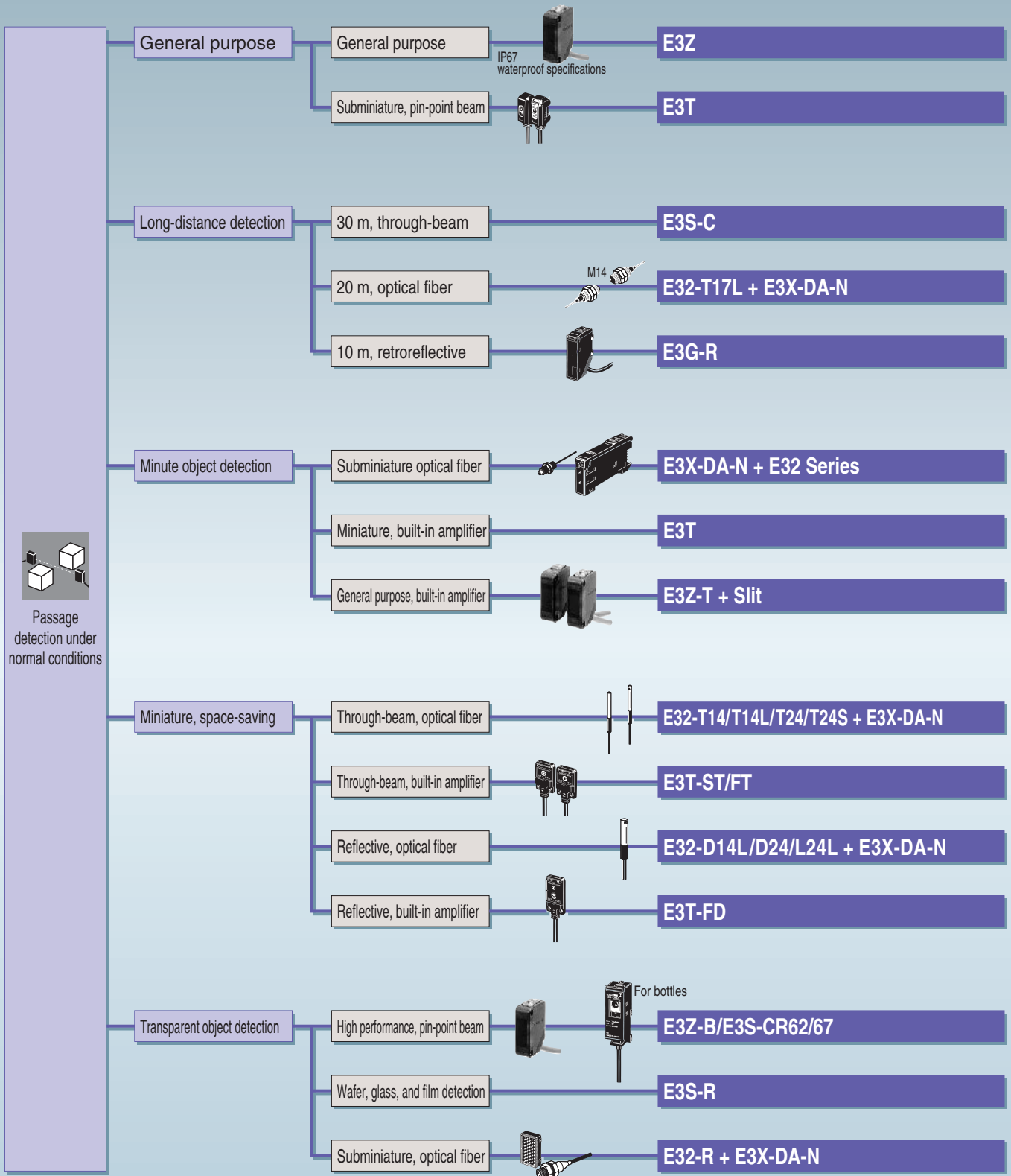
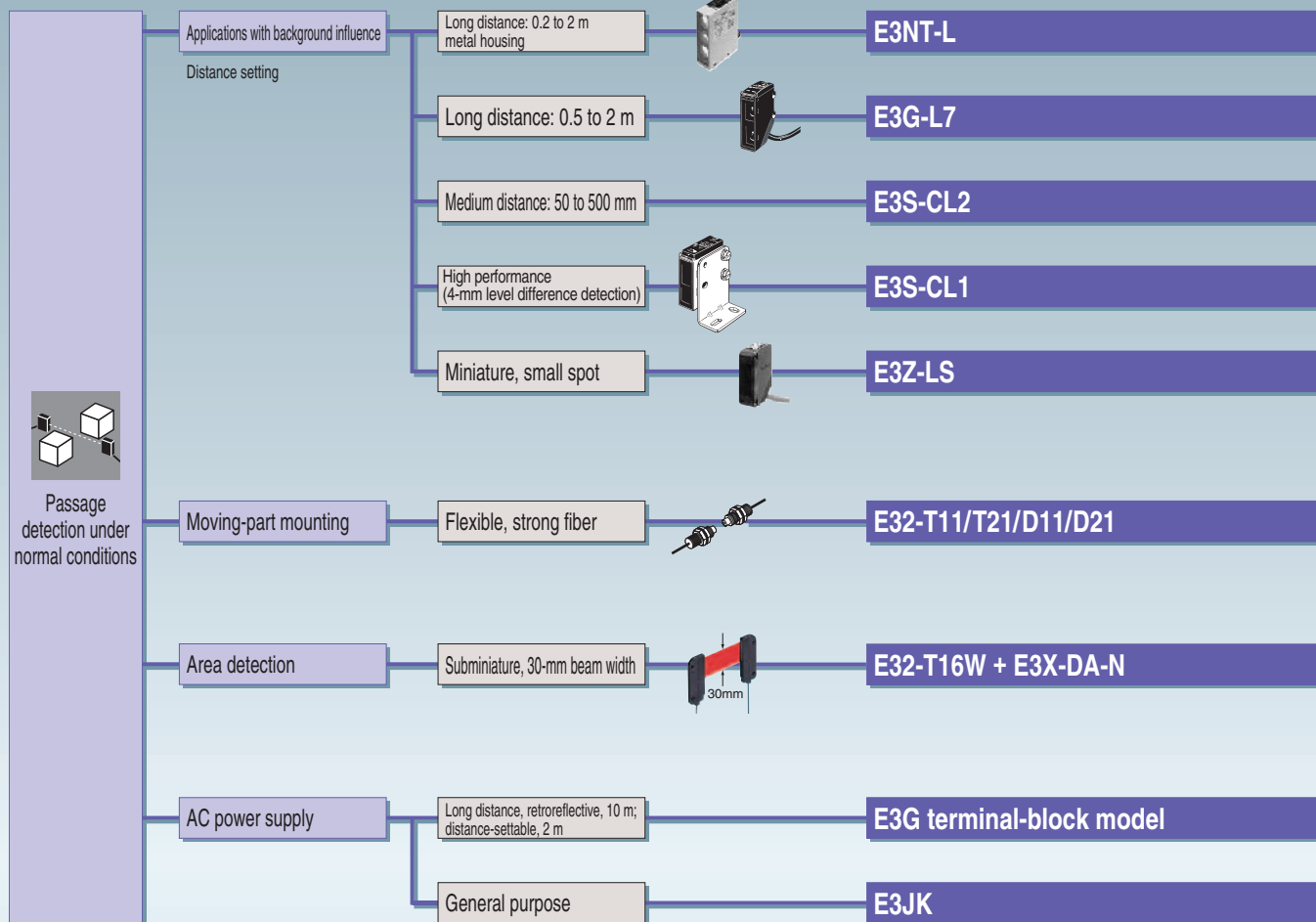


Selection Guide

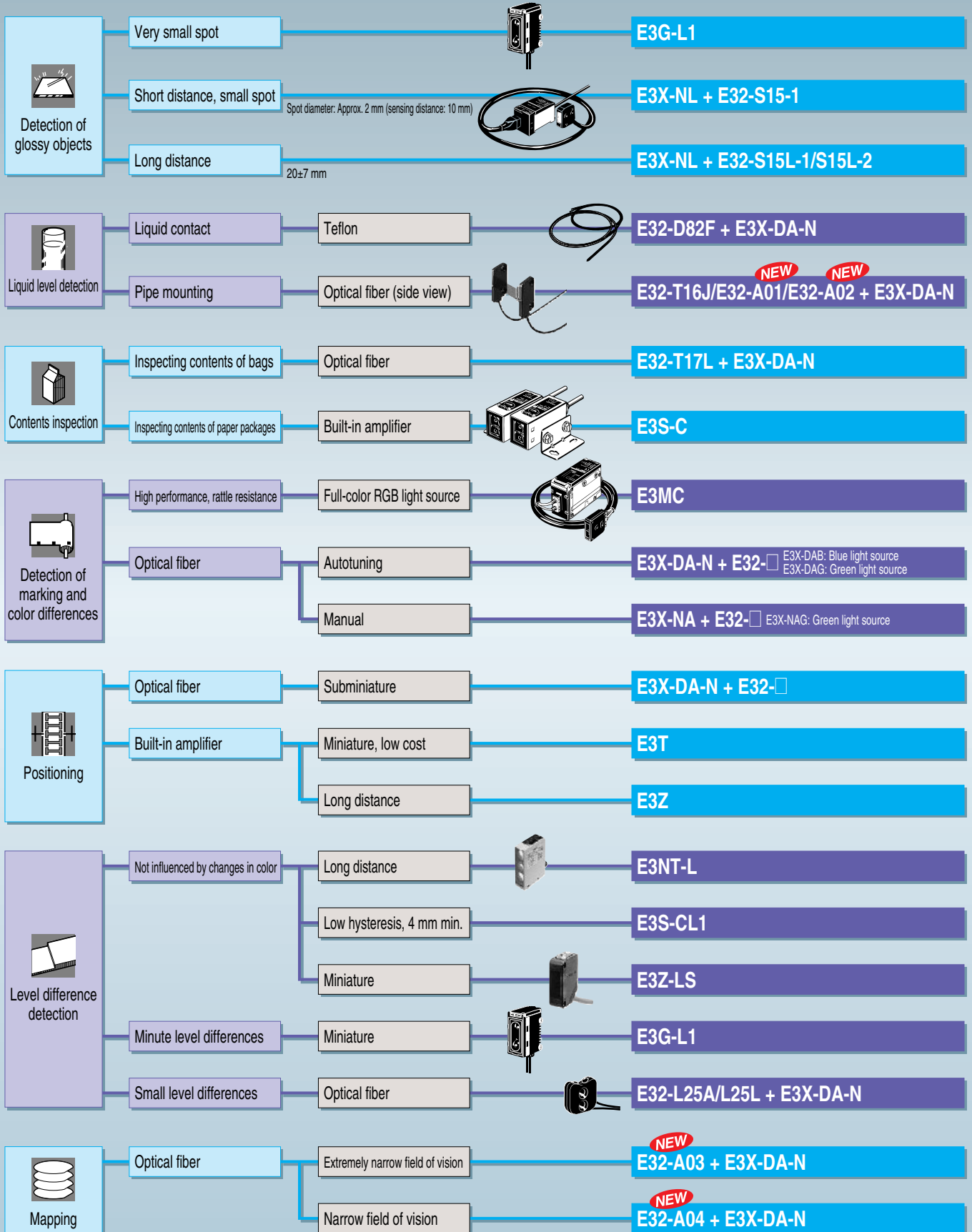
■ Photoelectric Sensors
 Classified According to Application



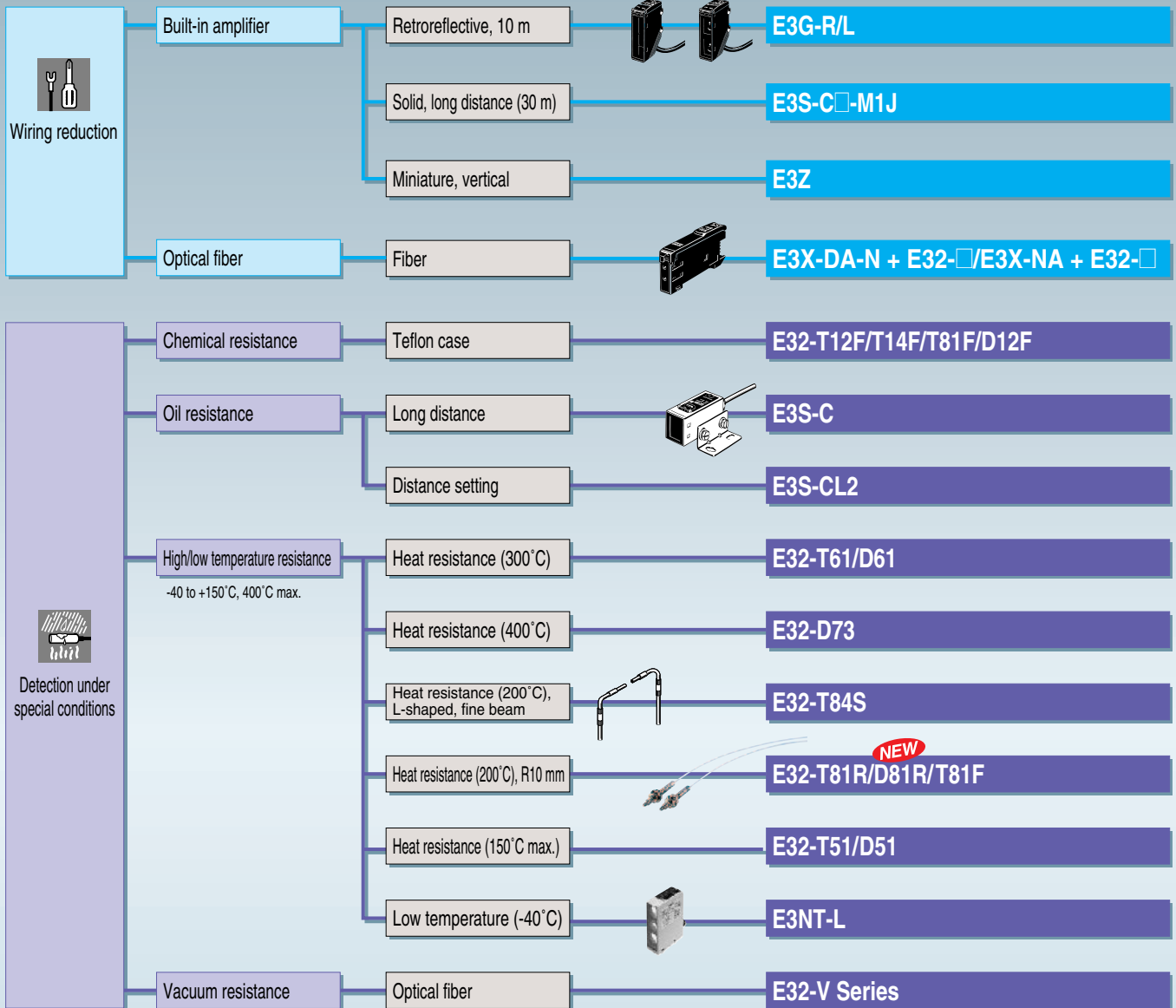


Selection Guide

■ Photoelectric Sensors
Classified According to Application



*Teflon is a registered trademark of the Dupont Company and the Mitsui Dupont Chemical Company for their fluoride resin.



Selection Guide

■ Photoelectric Sensors

Classified According to Specifications

Long-distance Models (Through-beam/Retroreflective) Selection According to Size and Sensing Distance

■ Red light ■ Infrared light

Appearance (lens diameter: mm)	Sensing distance	Features	Model
<p>Miniature (1.4 dia.) M4</p>	<p>1.33 m</p>	<ul style="list-style-type: none"> Optical fiber 	E32-T11L (With E3X-DA-N in standard mode)
<p>(4 dia.)</p>	<p>4 m*2</p>	<ul style="list-style-type: none"> Optical fiber Equipped with long-distance lens 	E32-TC200+ E39-F1 (With E3X-DA-N in standard mode)
<p>(10 dia.) M14</p>	<p>20 m *3</p>	<ul style="list-style-type: none"> Optical fiber 	E32-T17L (With E3X-DA-N in standard mode)
<p>(1.7 dia.)</p>	<p>1 m</p>	<ul style="list-style-type: none"> Subminiature, built-in amplifier Pin-point beam 	E3T-ST12
<p>(11 dia. x 7.2)</p>	<p>15 m</p>	<ul style="list-style-type: none"> Resin filled Vibration resistant Equipped with connector 	E3Z-T61
	<p>10 m</p>		E3Z-T61A
<p>(17 dia. x 11)</p>	<p>30 m</p>	<ul style="list-style-type: none"> Solid Oil resistant 	E3S-CT11
<p>(14 dia. x 12) Large</p>	<p>10 m [500 mm]*1</p>	<ul style="list-style-type: none"> Long distance, retroreflective 	E3G-R13

*1. The figure in square brackets indicates the minimum required distance between sensor and reflector.

*2. The actual sensing distance is longer because the length of the optical fiber is 2 m.

*3. The actual sensing distance is longer because the length of the optical fiber is 10 m.

■ Photoelectric Sensors

Classified According to Specifications

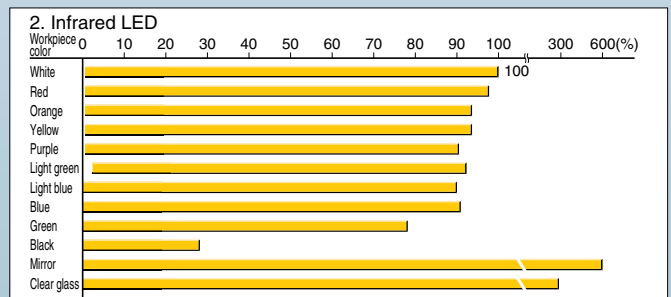
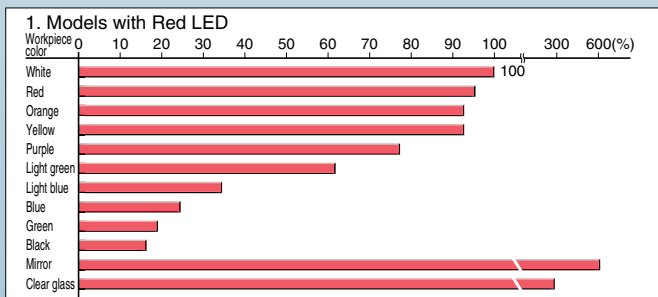
Long-distance Models (Diffuse reflective/Distance setting) Selection According to Size and Sensing Distance

Red light Infrared light

Appearance	Sensing distance (standard sensing object)	Features	Model
	400 mm	<ul style="list-style-type: none"> Red LED Fiber 	E3Z-D11L (With E3X-DA-N in standard mode)
	5 to 30 mm(50 x 50-mm white mat paper)	<ul style="list-style-type: none"> Built-in amplifier Ultra-slim 	E3T-FD11
	5 to 100 mm(100 x 100-mm white mat paper) wide field of vision (300 x 300-mm white mat paper)	<ul style="list-style-type: none"> Built-in amplifier Vertical 	E3Z-D61
	1 m		E3Z-D62
	20 to 200 mm		E3Z-LS61
	700 mm (200 x 200-mm white mat paper)	<ul style="list-style-type: none"> Built-in amplifier Solid 	E3S-CD□1
	2 m (300 x 300-mm white mat paper)		E3S-CD□2
	300 mm(100 x 100-mm white mat paper)	<ul style="list-style-type: none"> AC/DC power supply 	E3JK-DS30
	(100 x 100-mm white mat paper) 0.2 to 2 m	<ul style="list-style-type: none"> AC/DC power supply Distance setting Teaching 	E3G-L73
	(100 x 100-mm white mat paper) 0.2 to 2 m	<ul style="list-style-type: none"> Digital display Rigid metal housing Teaching 	E3NT-L17

Note: The figures given above for sensing distance are for the standard sensing object (white mat paper). The sensing distance will vary with the color of the light source and the workpiece. See the tables below.

Relationship between Workpiece Color and Sensing Distance for Diffuse Reflective Photoelectric Sensor (Typical Examples)



Selection Guide

Photoelectric Sensors

Classified According to Specifications

Space-saving Models (Through-beam) Selection According to Depth and Sensing Distance

■ Red light ■ Infrared light

Appearance *	Sensing distance	Features	Model
	■ 130 mm	<ul style="list-style-type: none"> Optical fiber, ultra-slim 	E32-T24 (With E3X-DA-N in standard mode)
	■ 460 mm	<ul style="list-style-type: none"> Optical fiber 	E32-T14L (With E3X-DA-N in standard mode)
	■ 700 mm	<ul style="list-style-type: none"> Optical fiber, side-view with lens 	E32-TC200+ E39-F2 (With E3X-DA-N in standard mode)
	■ 500 mm	<ul style="list-style-type: none"> Built-in amplifier Ultra-slim 	E3T-FT12
	■ 1300 mm	<ul style="list-style-type: none"> Optical fiber Fine beam 	E32-T24S (With E3X-DA-N in standard mode)
	■ 1800 mm	<ul style="list-style-type: none"> Optical fiber, wide screen fiber 	E32-T16W (With E3X-DA-N in standard mode)
	■ 3.4 m	<ul style="list-style-type: none"> Optical fiber 	E32-T14 (With E3X-DA-N in standard mode)

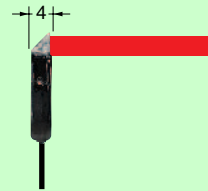
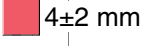






* The beam width corresponds to the value of a detector lens diameter.

■ Photoelectric Sensors

Classified According to Specifications

Space saving Models (Diffuse reflective) Selection According to Size and Sensing Distance

 Red light  Infrared light

Appearance	Sensing distance	Features	Model
	 4±2 mm	<ul style="list-style-type: none"> Optical fiber, convergent reflective 	E32-L24L (With E3X-DA-N in standard mode)
	 30 mm	<ul style="list-style-type: none"> Optical fiber 	E32-D24 (With E3X-DA-N in standard mode)
	 5 to 30 mm	<ul style="list-style-type: none"> Built-in amplifier, ultra-slim 	E3T-FD11
	 110 mm		E32-D14L (With E3X-DA-N in standard mode)





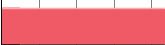

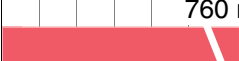

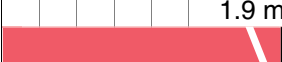

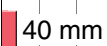


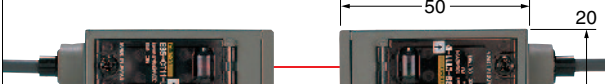
Selection Guide

■ Photoelectric Sensors

Classified According to Specifications

Minute Object Detection (Through-beam) Selection According to Minimum Size of Sensing Object and Sensing Distance

 Red light
  Infrared light

Minimum Sensing Object	Sensing distance	Appearance	Model
0.01 dia.	 130 mm		E32-T24 (With E3X-DA-N in standard mode)
0.01 dia.	 440 mm		E32-T22L (With E3X-DA-N in standard mode)
0.01 dia.	 440 mm		E32-T21L (With E3X-DA-N in standard mode)
0.01 dia.	 760 mm		E32-TC200 (With E3X-DA-N in standard mode)
0.01 dia.	 1.9 m		E32-T22S (With E3X-DA-N in standard mode)
0.2 dia.	 40 mm		E3Z-T61A+ E39-S65A (0.5 mm slit)
0.5 dia.	 1.8 m		E3S-CT11+ E39-S61 (0.5 mm wide slit)

■ Photoelectric Sensors

Classified According to Specifications

Minute Object Detection (Diffuse reflective)

Selection According to Minimum Size of Sensing Object and Sensing Distance

Red light Infrared light

Minimum Sensing Object	Sensing distance	Appearance	Model
0.01 dia.	16 mm		E32-D33 (With E3X-DA-N in standard mode)
0.01 dia.	75 mm		E32-D32 (With E3X-DA-N in standard mode)
0.01 dia.	80 mm		E32-DC200E (With E3X-DA-N in standard mode)
0.05 to 1 dia.	7 mm		E32-EC41+ E39-F3A-5 (With E3X-DA-N in standard mode)
0.015 dia.	3.3 mm		E32-L25A
0.015 dia.	7.2±1.8 mm		E32-L25L

Selection Guide

Photoelectric Sensors

Classified According to Specifications

Mark Sensors (Level Difference and Bright/Dark Sensing)

Selection According to Detected Color

Mark color Back-ground color	White	Yellow	Orange	Red	Green	Blue	Black
White		●	●	●●	●●●	●●●	●●●
Yellow	●		●	●	●●●	●●●	●●●
Orange	●	●		●●	●●●	●●●	●●●
Red	●●	●	●●		●	●●	●●
Green	●●●	●●●	●●●	●		●	●
Blue	●●●	●●●	●●●	●●	●		●
Black	●●●	●●●	●●●	●●	●	●	

●:Red light source ●:Blue light source ●:Green light source

* RGB light source models can perform all combinations shown in the above table.

Light source color	Configuration	Model
Red light source	Optical fiber	E3X-DA-N
		E3X-NA
Blue light source	Optical fiber	E3X-DAB11-N
Green light source	Optical fiber	E3X-DAG11-N
		E3X-NAG11
RGB light source	Built-in amplifier	E3MC-A
	Optical fiber	E3MC-X/Y

Level Difference Detection

Selection According to Detectable Level Difference and Setting Distance (Typical Examples)

— Sensing distance — Level difference




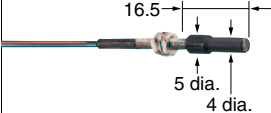

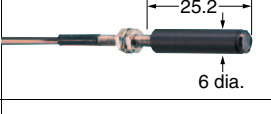

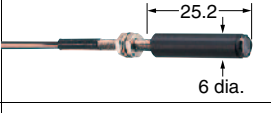


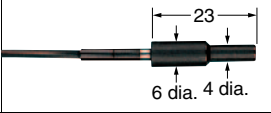


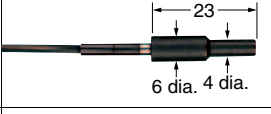

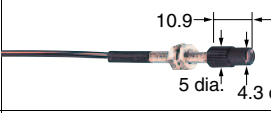


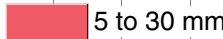

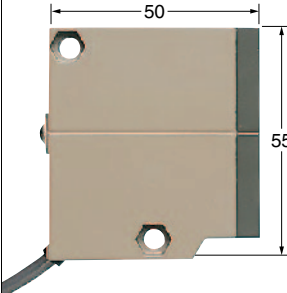




Appearance	0.165 mm	0.27 to 0.45 mm	2 mm	1.2 to 2 mm	2 mm	3 mm	0.8 to 4 mm	4 mm	60 mm
	3.3 mm	7.2 ±1.8 mm	5 to 15 mm	30 to 50 mm	40 to 60 mm	40 to 100 mm	40 to 200 mm	20 to 200 mm	200 to 2000 mm
Features	Optical fiber	Optical fiber	Built-in amplifier Ultra-slim	Built-in amplifier	Built-in amplifier	Built-in amplifier	Built-in amplifier	Built-in amplifier	Built-in amplifier
Model	E32-L25A	E32-L25L	E3T-SL1□	E3G-L1	E3S-LS5C4S	E3S-LS10C4S	E3S-CL1	E3Z-LS	E3NT-L

■ Photoelectric Sensors

Small Spot Detection

Selection According to Spot Diameter and Sensing Distance (Typical Examples)

 Red light  Infrared light

Spot diameter*	Sensing distance				Appearance	Model
0.1 dia.	 7 mm					E32-EC41+ E39-F3A-5 (With E3X-DA-N in standard mode)
0.5 dia.	 7 mm					E32-EC31+ E39-F3A-5 (With E3X-DA-N in standard mode)
0.2 dia.	 17 mm					E32-EC41+ E39-F3B (With E3X-DA-N in standard mode)
0.5 dia.	 17 mm					E32-EC31+ E39-F3B (With E3X-DA-N in standard mode)
0.1 dia. to 0.6 dia.	 6 mm  15 mm					E32-C42+ E39-F3A (With E3X-DA-N in standard mode)
0.5 dia. to 1.0 dia.	 6 mm  15 mm					E32-D32+ E39-F3A
4.0 dia.	 20 mm					E32-EC31/EC41+ E39-F3C (With E3X-DA-N in standard mode)
0.8 dia.	 5 to 15 mm					E3T-SL11
	 5 to 30 mm					E3T-SL21
4.0 dia.		 30 to 100 mm				E3S-LS10XE4
2.5 dia.			 80 to 100 mm			E3Z-L
35.0 dia.						E3NT-L

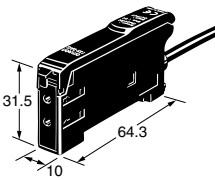
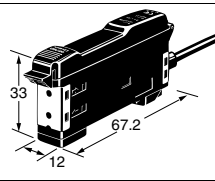
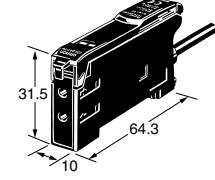
* Units: mm. The values given for the spot diameter are for detection at the maximum sensing distance.

Selection Guide

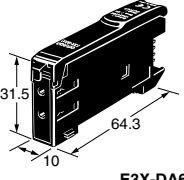
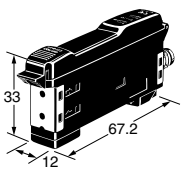
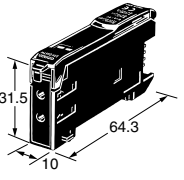
■ Photoelectric Sensors

Classified According to Product Model

Digital Fiber Amplifiers with Cables

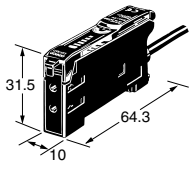
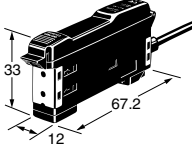
Appearance	Classification	Control output	Model		
			Output configuration		
			NPN output	PNP output	
 E3X-DA11-N	General purpose	• ON/OFF output	E3X-DA11-N	E3X-DA41-N	
	Monitor output	• ON/OFF output • Monitor output	E3X-DA21-N	E3X-DA51-N	
	Mark de- tection	Blue LED	• ON/OFF output	E3X-DAB11-N	E3X-DAB41-N
		Red LED		E3X-DAG11-N	E3X-DAG41-N
	Infrared diode	E3X-DAH11-N		E3X-DAH41-N	
Differential output	E3X-DA11D <i>NEW</i>	---			
 E3X-DA11V	Water resistant	• ON/OFF output		E3X-DA11V	E3X-DA41V
	 E3X-DA11TW	Twin output	• ON/OFF output	E3X-DA11TW	E3X-DA41TV

Digital Fiber Amplifiers with Connectors

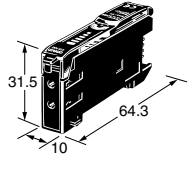
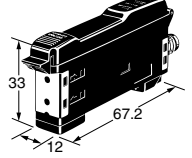
Appearance	Classification	Applicable Connector (order separately)		Control output	Model		
					Output configuration		
					NPN output	PNP output	
 E3X-DA6	General purpose	Master	E3X-CN11	• ON/OFF output	E3X-DA6	E3X-DA8	
		Slave	E3X-CN12				
	Monitor output	Master	E3X-CN21	• ON/OFF output • Monitor output	E3X-DA7	E3X-DA9	
		Slave	E3X-CN22				
	Mark de- tection	Blue LED	Master	E3X-CN11	• ON/OFF output	E3X-DAB6	E3X-DAB8
			Slave	E3X-CN12			
		Red LED	Master	E3X-CN11			
			Slave	E3X-CN12			
Infrared diode	Master	E3X-CN11	E3X-DAH6	E3X-DAH8			
	Slave	E3X-CN12					
Differential output	Master	E3X-CN11	E3X-DA6D <i>NEW</i>	---			
Slave	E3X-CN12						
 E3X-DA14V	Water resistant (M8 connector)	XS3F-M421-40□-A XS3F-M422-40□-A		• ON/OFF output	E3X-DA14V	E3X-DA44V	
	 E3X-DA6TW	Twin output	Master	E3X-CN21	• ON/OFF output	E3X-DA6TW	E3X-DA8TW
Slave			E3X-CN22				

■ Photoelectric Sensors




Classified According to Product Model
Fiber Amplifiers with Adjustors and Cables

Appearance	Classification	Control output	Model	
			Output configuration	
			NPN output	PNP output
	General purpose	• ON/OFF output	E3X-NA11	E3X-NA41
	High-speed detection		E3X-NA11F <i>NEW</i>	E3X-NA41F <i>NEW</i>
	Mark detection		E3X-NAG11	E3X-NAG41
	Water resistant		E3X-NA11V <i>NEW</i>	E3X-NA41V <i>NEW</i>

Fiber Amplifiers with Adjustors and Connectors

Appearance	Classification	Applicable Connector (order separately)		Control output	Model	
					Output configuration	
					NPN output	PNP output
	General purpose	Master	E3X-CN11	• ON/OFF output	E3X-NA6	E3X-NA8
		Slave	E3X-CN12			
	Water resistant (M8 connector)	XS3F-M421-40□-A XS3F-M422-40□-A			E3X-NA14V <i>NEW</i>	E3X-NA44V <i>NEW</i>

Fiber Amplifier Sensor Communication Units

Appearance	Communications method	Features	Connectable Fiber Amplifiers	Model
	DeviceNet	<ul style="list-style-type: none"> Equipped with connector for wiring and space reduction. Connection possible for up to 16 units (14 units with CompoBus/S model). 	E3X-DA□6 E3X-DA□8 E3X-DA6□ E3X-DA8TW E39-TM1	E3X-DRT21
	CompoBus/S			E3X-SRT21
	RS-422			E3X-CIF11

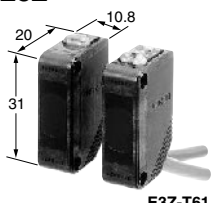
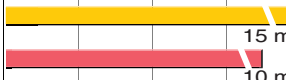


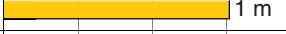
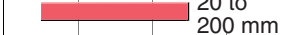
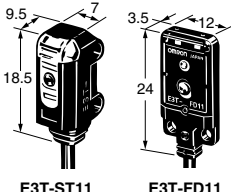
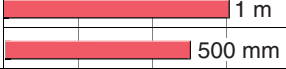
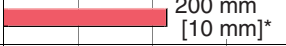
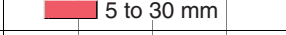
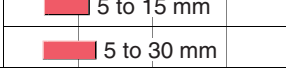
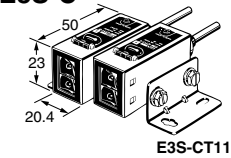
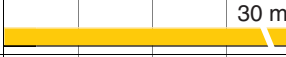
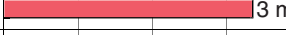
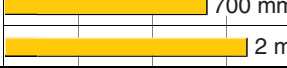
Selection Guide

■ Photoelectric Sensors

Classified According to Product Model

Models with Built-in Amplifier (General Purpose)

 Red light
  Infrared light

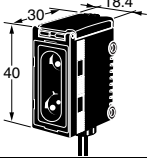
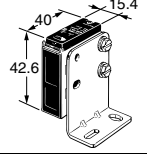

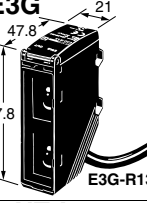

Appearance (typical examples)	Features	Sensing method	Sensing distance	Model
E3Z  E3Z-T61	<ul style="list-style-type: none"> • Miniature, long distance • Power and resource savings • Models with M8 connector available. 	Through-beam		E3Z-T□1 (6) E3Z-T□1A (6A)
		Retroreflective (MSR)		E3Z-R□1 (6)
		Diffuse reflective		E3Z-D□1 (6)
				E3Z-D□2 (7)
		Distance setting		E3Z-LS
E3T  E3T-ST11 E3T-FD11	<ul style="list-style-type: none"> • Subminiature, slim • Visible fine beam • High-power beam 	Through-beam		E3T-ST1□ E3T-FT1□
		Retroreflective		E3Z-SR1□
		Diffuse reflective		E3T-FD1□
		Convergent reflective		E3T-SL1□ E3T-SL2□
E3S-C  E3S-CT11	<ul style="list-style-type: none"> • Excellent water resistance, oil resistance, and long-distance detection • NPN/PNP selectable 	Through-beam		E3S-CT□1 (-M1J)
		Retroreflective (MSR)		E3S-CR□1 (-M1J)
		Diffuse reflective		E3S-CD□1 (-M1J) E3S-CD□2 (-M1J)

Photoelectric Sensors

Classified According to Product Model

Models with Built-in Amplifiers

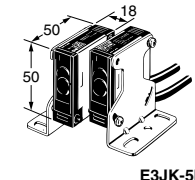
Red light Infrared light

Appearance	Features	Sensing method	Sensing distance	Model
E3G-L1/L3 	<ul style="list-style-type: none"> Ideal for detecting minute workpieces. Stable detection even with colored, angled, or glossy objects. Models with M8 connector available. Equipped with teaching function. 	Distance setting	Sensing range: 5 to 50 mm Setting range: 30 to 50 mm	E3G-L1□
			Sensing range: 5 to 200 mm Setting range: 50 to 200 mm	E3G-L3□
E3S-CL 	Minimal influence from background objects and colors so that only the required object is detected. Long sensing distance, oil resistance, and water resistance. High-performance die-cast case.	Distance setting	Sensing range: 5 to 200 mm Setting range: 40 to 200 mm	E3S-CL1
			Sensing range: 5 to 500 mm Setting range: 50 to 500 mm	E3S-CL2
E3S-LS  E3S-LS5C4S	Eliminates influence from background objects and colors so that only the required object is detected. Compact plastic case, small spot	Distance setting	Sensing range: 5 to 60 mm Setting range: 40 to 60 mm	E3S-LS5C4S E3S-LS5B4S1
			Sensing range: 5 to 100 mm Setting range: 40 to 100 mm	E3S-LS10C4S
			Sensing range: 0 to 200 mm Setting range: 40 to 200 mm	E3S-LS20C4S E3S-LS20B4S1
E3G  E3G-R13	<ul style="list-style-type: none"> Two long-distance detection models available. E3G-M models can use either AC or DC power supplies. 	Retroreflective (MSR)	10 m [500 mm]*	E3G-R1□ E3G-MR19 (T)
		Distance setting	White mat paper: 0.2 to 2 m	E3G-L7□ E3G-ML79 (T)
E3NT-L 	<ul style="list-style-type: none"> Long sensing distance Digital display Use set functions Teaching Rigid metal housing 	Distance setting	0.2 to 2 m	E3NT-L

* The figures in square brackets indicate the minimum required distance between sensor and reflector.

Models with Built-in Power Supply

Red light Infrared light

Appearance	Features	Sensing method	Sensing distance	Model
E3JK  E3JK-5M1	Slim body full of functions	Through-beam	5 m	E3JK-5M□ E3JK-5S3
		Retroreflective (MSR)	2.5 m (3 m) *1	E3JK-R2M□ E3JK-R2S3
		Retroreflective	4 m (5 m) *1	E3JK-R4M□ E3JK-R4S3
		Diffuse reflective	300 mm	E3JK-DS30M□ E3JK-DS30S3

*1. The figures in parentheses indicate the sensing distances for use with the E39-R2 reflector.

*2. The figures in square brackets indicate the minimum required distance between sensor and reflector.

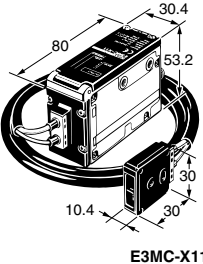
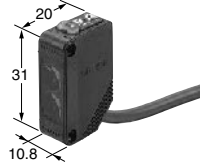
Selection Guide

■ Photoelectric Sensors

Classified According to Product Model

Models with Built-in Amplifier (General Purpose)

■ Red light
 ■ Infrared light
 ■ RGB light

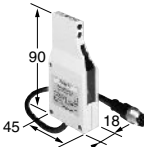



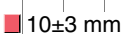
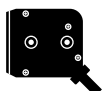
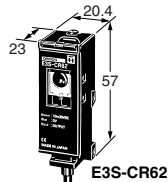
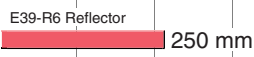
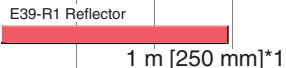
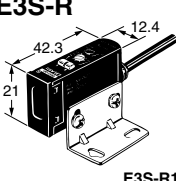

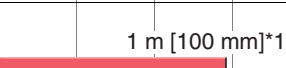

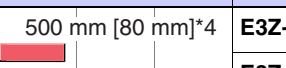
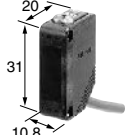
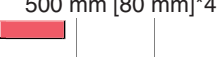
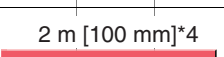

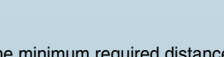
Application	Appearance	Features	Configuration	Sensing distance	Model
Full Color Sensors (LED)	E3MC  E3MC-X11	[ON/OFF models] • Detect minute level differences. • Minimal influence from rattling and glossy workpieces.	Built-in amplifier	■ 60±10 mm	E3MC-A□1 E3MC-MA□1
			Fiber	■ 20±4 mm	E3MC-X□1 E3MC-MX□1
			General purpose, fiber	■ 5 mm (E32-CC200)	E3MC-Y□1
				■ 200 mm (E32-T16)	E3MC-MY□1
			Built-in amplifier	■ 60±10 mm	E3MC-A
			Fiber	■ 20±4 mm	E3MC-X
			General purpose, fiber	■ 5 mm (E32-CC200)	E3MC-Y
Application	Appearance	Features	Sensing method	Sensing distance	Model
Thin Beam Spot Sensors	E3Z-L 	• 2.5-mm-dia. small spot • Visible light • Models with M8 connector available.	Reflective	■ 90±30 mm	E3Z-L□1(6)

■ Photoelectric Sensors

Classified According to Product Model

Classified According to Application

 Red light  Infrared light

Application	Appearance	Features	Sensing method	Sensing distance	Model	
Lasers	 <p>F3C-AL</p>	Stable detection possible for all colors, even with reflective backgrounds such as SUS, by adjusting the distance.	Distance setting	 <p>Sensing range 120 to 700 mm</p>	F3C-AL□4-M1J	
				 <p>Setting range 150 to 700 mm</p>		
Application	Fiber Unit			Features	Applicable Amplifier	
	Appearance	Sensing method	Sensing distance		Model	Model
Optical Fiber Glossy Object Sensors	 <p>29 x 29 x 10 mm</p>	E3ML-XE4	 <p>10±3 mm</p>	E32-S15-□	<ul style="list-style-type: none"> • Discriminates a wide range of gloss • Short-distance detection • Small spot 	E3X-NL11
	 <p>42 x 47 x 20 mm</p>					
Application	Appearance	Features	Sensing method	Sensing distance	Model	
Transparent Bottle Sensors (for Detection of Transparent Objects)	 <p>E3S-CR62/67</p>	High precision Detect transparent bottles	Retroreflective	 <p>E39-R6 Reflector 250 mm</p>	E3S-CR62	
				 <p>E39-R1 Reflector 1 m [250 mm]*1</p>	E3S-CR67	
	 <p>E3S-R</p>	<ul style="list-style-type: none"> • Resin models available. • Horizontal and vertical models available. • Models with connectors available. 	Retroreflective	 <p>300 mm [100 mm]*1</p>	E3S-R□2	
				 <p>1 m [100 mm]*1</p>	E3S-R□7	
			Retroreflective (MSR)	 <p>1 m [100 mm]*1</p>	E3S-R□1	
				 <p>1 m [100 mm]*1</p>	E3S-R□6	
Appearance	Connection method	Sensing method	Sensing distance	Model		
 <p>E3Z-B</p>	Pre-wired	Retroreflective *3 (No MSR function)	 <p>500 mm [80 mm]*4</p>	E3Z-B61	E3Z-B81	
	Connector		 <p>500 mm [80 mm]*4</p>	E3Z-B66	E3Z-B86	
	Pre-wired		 <p>2 m [100 mm]*4</p>	E3Z-B62	E3Z-B82	
	Connector		 <p>2 m [100 mm]*4</p>	E3Z-B67	E3Z-B87	

*1. The figures in square brackets indicate the minimum required distance between sensor and reflector.

*2. This figure is for use with a 0.85-mm-dia. slit. The figure is 10 m if no slit is used.

*3. A reflector is not provided.

*4. The figures for sensing distance are for use with an E39-R1S. The figures in square brackets indicate the minimum required distance between sensor and reflector.

*5. Models with 0.5 m cables are also available. Specify the cable length required at the end of the model number. (Example: E3Z-B61 0.5 m)


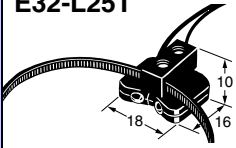




Selection Guide

■ Photoelectric Sensors

Classified According to Product Model

Classified According to Application

 Red light
  Infrared light

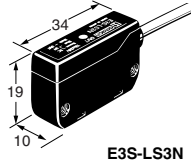
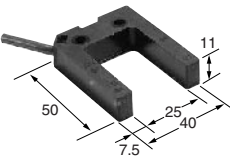
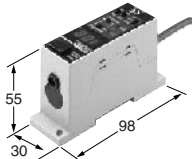
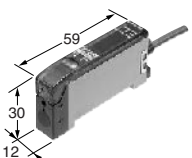
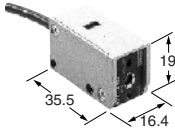
Application	Appearance	Features	Sensing method	Model	Applicable Amplifier	
Liquid level	E32-D82F  E32-D82F1	Liquid level fiber sensor Heat resistant (200 °C)	Diffuse reflective	E32-D82F□	E3X-DA-N E3X-NA	
	E32-L25T  10 18 16	Liquid level fiber sensor Mounts to pipes of 8- to 10-mm diameter (wall thickness: 1 mm).	Reflective	E32-L25T		
Application	Appearance	Classification		Sensing distance (when using E3X-NH)	Model	Applicable Amplifier
Vacuum Sensors	 E32-T51V 1M 80 80 E32-VF4 E32-T10V 2M	Fiber on vacuum side	Through-beam, straight	 100 mm	E32-T51V 1M	E3X-DA-N E3X-NA
			Through-beam, L-shaped	 65 mm	E32-T54V 1M	
			Through-beam, heat resistant	 250 mm	E32-T84SV 1M	
	Flange	4 channels	—	E32-VF4		
		1 channel		E32-VF1		
	Fiber outside			E32-T10V 2M		

■ Photoelectric Sensors

Classified According to Product Model

Classified According to Application

Red light Infrared light

Application	Appearance	Features	Sensing method	Sensing distance		Model
PCB Sensors	E3S-LS3 <i>NEW</i> 	Stable detection even for black PCBs.	Convergent reflective	Red light	20 to 35 mm	E3S-LS3N
				Red light	10 to 60 mm	E3S-LS3NW
Application	Appearance	Features	Connection method	Number of optical axes	Sensing distance	Model NPN output
Grooved-type Photoelectric Sensors	E3Z-G 	<ul style="list-style-type: none"> Grooved design eliminates the need for optical axis adjustment. Two-axis models also available. 	Pre-wired (0.5/2 m)	1	Infrared light 25 mm	E3Z-G61
			Junction connector			E3Z-G61-M3J
			Pre-wired (0.5/2 m)	2		E3Z-G62
			Pre-wired (0.5/2 m)			E3Z-G62-M3J
Application	Appearance	Features	Connection method	Output	Output configuration	Model
UV Power Monitors	F3UV-XW 	<ul style="list-style-type: none"> Fiber Head withstands temperatures of up to 300 °C/150 °C. Harmful UV light is converted to visible light (when F3UV-HM/HT is used). Easy-to-read digital display of measurement values (with F3UV-XW models). Light monitored by amplifier via optical fiber cable. Fiber Unit required separately. 	Pre-wired	<ul style="list-style-type: none"> Evaluation output Answer-back output Analog output 	NPN output	F3UV-XW11
	F3UV-XA 			<ul style="list-style-type: none"> Analog voltage output 	PNP output	F3UV-XW41
				—	—	F3UV-XA
	Appearance	Features	Intensity range of incident light	Output	Model	
UV Power Monitors	F3UV-A 	<ul style="list-style-type: none"> Built-in amplifier Deterioration due to UV light prevented by protective structure. Confirm the output status of the UV light source with an operation indicator. 	1 to 30 mW/cm ²	Analog voltage output	F3UV-A30	
			0.2 to 3 mW/cm ²		F3UV-A03	

Selection Guide

■ Photoelectric Sensors

Classified According to Product Model
Accessories

Name	Appearance	Features	Model
Sensor Adjustor	<p>E39-L150 <i>NEW</i> E39-L151 <i>NEW</i> E39-L93 E39-L97 E39-L98</p>	Reliable sensor attachments that are easily installed and easily adjusted.	E39-L150
Mounting Attachment for E39-R1			E39-L151
Vertical Protective Sensor Cover			E39-L93
Horizontal Protective Sensor Cover			E39-L96
			E39-L97
			E39-L98