Special-beam Models

Detection with Increased Reliability

A variety of heads incorporating the latest optical technology makes it possible to solve common problems related to detection and to increase reliability.

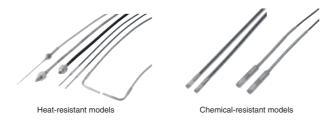
- Resistant to dust and dirt
- Capable of detecting small workpieces
- Resistant to workpiece vibration
 Use these models to handle
 unstable detection conditions.



Environmentresistive Models

High Resistance to External Conditions with Fiber ▶ P14

We have developed model variations for adapting to a variety of environmental conditions. These models enable detection in high-temperature environments and vacuums.



- High-temperature environments
- Environments subject to the splattering of chemicals
- Vacuums

Use these models to handle applications in special environments.

Applicationcorresponding Models

Fiber Units for the Food-packaging,
Semiconductor, and FPD Industries P16

These models, which were developed for specific applications, offer top-quality detection performance.

- Label detection
 Liquid-level detection
- Liquid-level detection
- Alignment and mapping of glass substrates
- Wafer mapping Use these models for specific applications.





Liquid-level detection models E32-D36T

Fiber Units with Reflective Sensors

High-resolution mode Standard mode High-speed mode *When used in combination with the E3X-DA-S Amplifier Unit (general-purpose).

(Super-high-speed mode)

Туре		Appearance (mm) *3		Sensing distance (mm) *1				(Min. sensing object) (mm) *2	Min. bending radius (mm)	Features	Model number
Special-beam models	Convergent-reflective	Free-cut		3.3					R25	Small level dif- ferences, high power, side-view	E32-L25
		Free-cut		3.3 3.3 (3.0	3)					Small level dif- ferences, top- view	E32-L25A
		Free-cut		0 to 4 0 to 4 0 to 4 (0 to 4)				R10	Ultracompact, flat-view	E32-L24S
		Free-cut		2 to 6 (d	center: 4 center: 4 2 to 6) (c			(0.005 dia.)		Heat resistant up to 105°C *4, top-view	E32-L24L
		Free-cut		5.4 to 9	(center: (center: (5.4 to		r: 7.2)			Heat resistant up to 105°C *4, top-view	E32-L25L
		1		4 to 10 4 to 10 4 to 10					R25	Heat resistant up to 200°C, flat- view	E32-L86
		Free-cut		10 to 15 10 to 15 10 to 12 (0 to 12)				7120	Wide-range sensing, flat- view	E32-L16	
Environment-resistive models	Heat-resistant	150°C*5			230 0 (72)	0			R35	Heat resistant up to 150°C	E32-D51
		200°C*6	—————————————————————————————————————	15 90	50			(0.005 dia.)	R10	Heat resistant up to 200°C	E32-D81R-S E32-D81R
		350°C*6	M 6	1 60 (2)	7)				R25	Heat resistant up to 350°C	E32-D61-S E32-D61
		400°C*6	M4 1.25 dia. Min. bending radius of sleeve: 10	100 60 40 (18	3)					Heat resistant up to 400°C, with sleeve	E32-D73-S E32-D73
	Chemical-resistant	Free-cut		160 95 165 (30)				Fluororesin cov- er, long distance	E32-D12F		
		Free-cut +7 dia.		70 40 30 (10))			(0.005 dia.)	R40	Fluororesin cov- er, side-view	E32-D14F

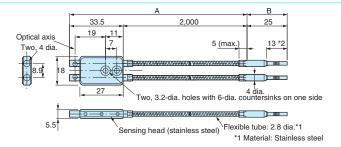
- * 1. The sensing distances are for white paper.
- *2. The values for the minimum sensing object are representative values that indicate values obtained in standard mode with the sensing distance and sensitivity set to optimum values.
- *3. Free-cut Indicates models that allow free cutting.
- *4. For continuous operation, use the products within a temperature range of -40°C to 90°C.
- *5. For continuous operation, use the products within a temperature range of -40°C to 130°C .
- *6. The maximum temperature that can be withstood varies with the location

Fiber Units with Reflective Sensors

Convergent-reflective Models

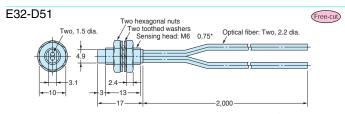
Free-cui Indicates models that allow free cutting.

E32-L86

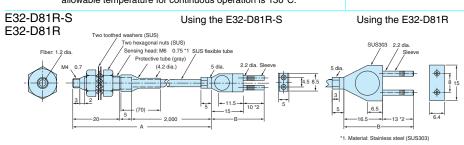


Note: The maximum allowable temperatures for sections A and B are 200°C and 110°C, respectively. The section inserted into the Amplifier Unit (indicated by *2), however, must stay within the Amplifier Unit's operating temperature range.

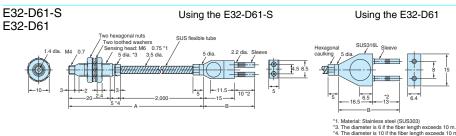
Heat-resistant Models



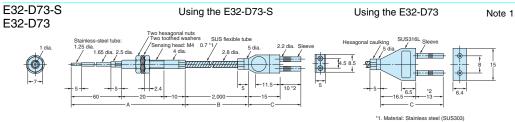
*Material: Brass/nickel plating
Note: The maximum allowable temperature is 150°C. The maximum
allowable temperature for continuous operation is 130°C.



Note 1. The maximum allowable temperatures for sections A and B are 200°C and 110°C, respectively. The section inserted into the Amplifier Unit (indicated by *2), however, must stay within the Amplifier Unit's operating temperature range.



Note 1. The maximum allowable temperatures for sections A and B are 350°C and 110°C, respectively. The section inserted into the Amplifier Unit (indicated by *2), however, must stay within the Amplifier Unit's operating temperature range.



Note 1. The maximum allowable temperatures for sections A, B, and C are 400°C, 300°C, and 110°C, respectively. The section inserted into the Amplifier Unit (indicated by *2), however, must stay within the Amplifier Unit's operating temperature range.

Chemical-resistant Models

