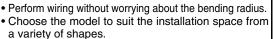
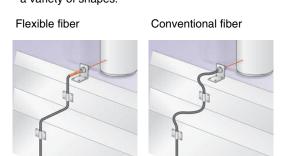
Standard Models

Flexible (New Standard)







Fewer problems Light intensity affected by bends in fiber Fiber broken by getting caught on surrounding objects



A large number of ultrafine cores are all surrounded by cladding. As a result, the fiber is flexible and can be bent without significantly reducing the light intensity. This helps solve problems, such as fiber being broken by getting caught on other objects.

■ Ratings/Characteristics

Min. sensing object	0.005-mm dia.
Min. bending radius	1 mm
Ambient tem- perature range	-40°C to 70°C (no icing or condensation)
Fiber material	Plastic (Free-cut)

Standard

- Choose the model to suit the installation space from a variety of shapes.
- New flat models allow space savings and simple installation.



■ Feature: Flat Models

Flat models, which allow simple attachment and wiring, have been added to the lineup. Choose the model to suit the installation space from 3 sensing directions and 2 sizes, standard and small.

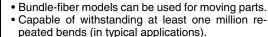


■ Ratings/Characteristics

_						
Min. sensing object	0.005-mm dia.					
Min. bending radius	10 or 25 mm*					
Ambient tem- perature range	-40°C to 70°C (no icing or condensation)					
Fiber material	Plastic (Free-cut)					

^{*}Depends on the fiber diameter.

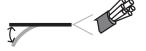
Break-resistant





■ Feature: Bundle Fibers

The Fiber Units contain a large number of independent fine fibers, ensuring a high degree of flexibility.



В

■ Ratings/Characteristics

3					
Min. sensing object	0.005-mm dia.				
Min. bending radius	4 mm (withstands repeated bending)				
Ambient tem- perature range	-40°C to 70°C (no icing or condensation)				
Fiber material	Plastic Free-cut				

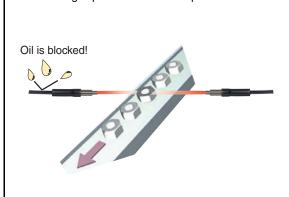
Standard Models

Fluorine Coating

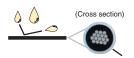


· Fiber degradation due to oil is prevented using a fluororesin coating.

· Free cutting is possible with cutter provided.



■ Feature: Fluorine Coating



Fluororesin is used as the sheath material to prevent fiber degradation resulting from oil adhesion. Note: The tip of the head is not chemical-resistant.

■ Ratings/Characteristics

Min. sensing object	0.005-mm dia.					
Min. bending radius	4 mm					
Ambient tem- perature range	-40°C to 70°C (with no icing or condensation)					
Fiber material	Plastic Free-cut					

Fiber Customization Service

(Fiber Length, Sleeve Length, and Bends)

(Fiber Length)



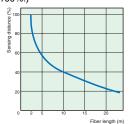
■Aplicable Models Standard models

■Model Number Used for Ordering Standard model number + Fiber length Fiber length: 0.3 m, 0.5 m, or any length from 1 to 20 m (in 1-m units)

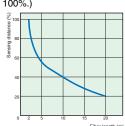
(Sleeve Length and Bends)

■Applicable Models E32-TC200B/E32-TC200F E32-DC200B/E32-DC200F The E32-DC200B cannot be bent. This customization/delivery service applies to standard models. It is aimed at reducing industrial waste and simplifying the installation procedure.

■ Fiber Length vs. Sensing Distance Through-beam Fiber Units (Fiber length of 2 m corresponds to 100%.)



Fiber Units with Reflective Sensors (Fiber length of 2 m corresponds to 100%.)



■ Model Number Used When Changing Only the Sleeve Length



Model: E32-*1C200*2-S*3

■ Model Number Used When Changing the Sleeve Length and Bends



Model Numbers Incorporating the Bending Radius, R, and Dimensions L1 and L2 (Units: mm) Specifying L2 Only Specifying L1 Only

Bending radius	L1 (±1)	Model number	Bending radius	L2 (±1)	Model number
R5	10	E32-*1C200*2-S*3A1	R5	5	E32-*1C200*2-S*3A3
no	15	E32-*1C200*2-S*3A2	ทอ	10	E32-*1C200*2-S*3A4
R7.5	12.5	E32-*1C200*2-S*3B1	R7.5	7.5	E32-*1C200*2-S*3B3
n7.5	17.5	E32-*1C200*2-S*3B2	n/.5	17.5	E32-*1C200*2-S*3B4
R10	15	E32-*1C200*2-S*3C1	R10	10	E32-*1C200*2-S*3C3
niu	20	E32-*1C200*2-S*3C2	nio	20	E32-*1C200*2-S*3C4
R12.5	17.5	E32-*1C200*2-S*3D1	R12.5	12.5	E32-*1C200*2-S*3D3
	22.5	E32-*1C200*2-S*3D2	H12.5	22.5	E32-*1C200*2-S*3D4

- *1: Insert "T" for Through-beam Fiber Units and "D" for Fiber Units with Reflective Sensors.
 *2: Insert the "B" or "F" that appears at the end of the original model number.
 *3: Insert "50" if the total length is 50 mm. The total length must not exceed 120 mm.

Fiber Units with Reflective Sensors

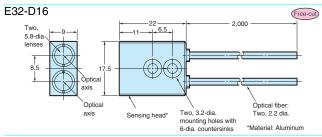
Туре		Appearance (mm) *3		Sensing distance (mm) *1			(Min. sensing object) (mm) *2	Min. bending radius (mm)	Features	Model number	
	Coating Break-resistant	Standard size	Free-cut M6		300				B R4	M6 screw	E32-D11
		Standa	Free-cut	17 120						Flat shape	E32-D15XB
			Free-cut M4	110 70						M4 screw (small)	E32-D21B
Standard models		Small size	Free-cut	1 45 (20))			(0.005 dia.)		3-dia. cylinder (small)	E32-D221B
			Free-cut) M3	5 0						M3 screw (small)	E32-D21
0,			1.5 dia.	■30 ■20 (8)						1.5-dia. cylinder (small)	E32-D22B
				85 50 30 (15	j)					Flat shape (small)	E32-D25XB
		Free-	cut) M6	17 120				(0.005 dia.)	R4	M6 screw, fluorine coating	E32-D11U
	Long-distance, high-power	Free-cut M6 Free-cut A3 dia.			4	4	40 to 1,000 0 to 700 0 (40 to 240)		B R4	Large built-in lens, screw mounting	E32-D16
					40 260 (11	650 0 0))		R25	M6 screw	E32-D11L
odels					210				R10	M4 screw	E32-D21L
I-beam models				130 130 180 (3) 35)			(0.005 dia.)		3-dia. cylinder	E32-D22L
Special	acompact, thin-slee	Free-cut 3 dia. 0.8 dia. Sleeve cannot be bent.		■25 ■16 ■10 (4)				(5.000 dia.)	D.	0.8-dia. sleeve	E32-D33
		Sleev	2 dia. 0.5 dia.	5 3 2 (0.8)					R4	0.5-dia. sleeve	E32-D331

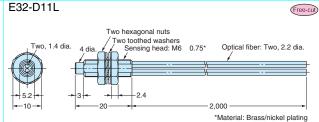
^{*1.} The sensing distances are for white paper.
*2. The values for the minimum sensing object are representative values that indicate values obtained in standard mode with the sensing distance and sensitivity set to optimum values.
*3. Free-cut Indicates models that allow free cutting.

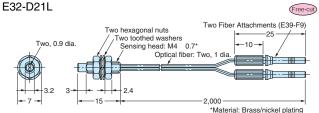
Fiber Units with Reflective Sensors

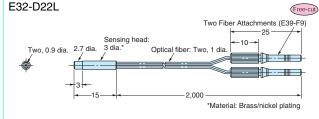
Long-distance/High-power Models

Free-cui Indicates models that allow free cutting.

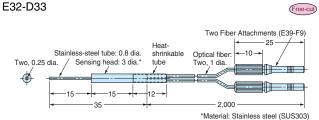


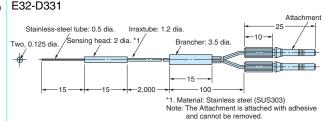




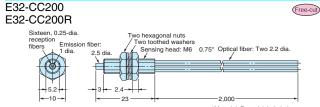


Ultracompact/Thin-sleeve Models

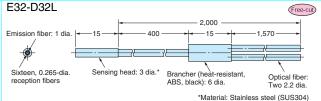




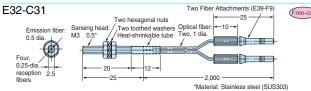
Coaxial/Small-spot Models



*Material: Brass/nickel plating
Note: There is a white line on the fiber that is inserted in the emitter-side port.



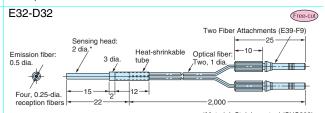
Note: There is a yellow dotted line on the fiber that is inserted in the emitter-side



Note 1. There is a white line on the cable fiber that is inserted in the emitter-side port.

 The core diameter of the sensing head is assumed to lie in the range 2.44 to 2.49 mm.

hesive and cannot be removed.



*Material: Stainless steel (SUS303) Note: There is a white line on the cable fiber that is inserted in the emitter-side port.

