

Fiber Sensor Features

Selection Guide

Fiber Units

Standard Installation

- Threaded
- Cylindrical

Saving Space

- Flat
- Sleeved**

Beam Improvements

- Small Spot
- High Power
- Narrow view
- BGS

Transparent Objects

- Retro-reflective
- Limited-reflective

Environmental Immunity

- Chemical-resistant, Oil-resistant
- Bending
- Heat-resistant

Applications

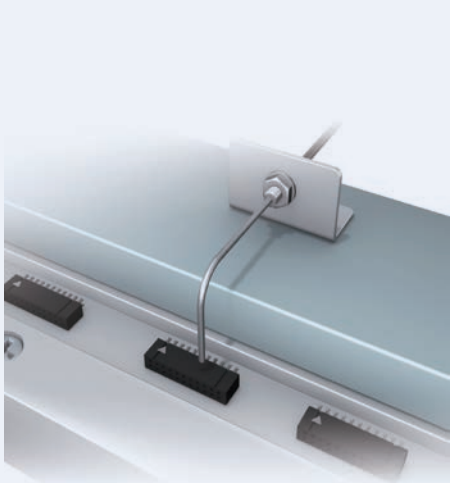
- Area Detection
- Liquid-level
- Vacuum
- FPD, Semi, Solar

Installation Information

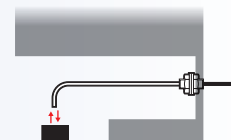
Fiber Amplifiers, Communications Unit, and Accessories

Technical Guide and Precautions

Model Index



- Sleeve Fiber Units allow detection away from the point of installation for stable close-range detection of small objects.
- The shape of sleeve can be changed freely. (Refer to the sleeve bending specifications in the Appearance column of the specifications table.)



Specifications

Through-beam Fiber Units

Sensing direction	Appearance (mm)	Bending radius of cable	Sensing distance (mm)						Optical axis diameter (minimum sensing object)	Models	17 Page Dimensions No.
			E3X-HD			E3NX-FA <i>NEW</i>					
			GIGA	HS	Other modes	GIGA	HS	Other modes			
Side-view	The sleeve cannot be bent.  15 20 2.0 dia. IP67	Flexible, R1	170	ST : 100	250	ST : 150	0.5 dia. (5 μm dia./ 2 μm dia.)	E32-T24R 2M	17-A		
	50		SHS: 20	75	SHS: 20						
Side-view	The sleeve cannot be bent.  15 15 2.5 dia. IP67	R10	450	ST : 250	670	ST : 370	0.25 dia. (5 μm dia./ 2 μm dia.)	E32-T24E 2M	17-B		
	150		SHS: 60	220	SHS: 60						
Top-view	The sleeve cannot be bent.  40 0.5 dia. IP67	R10	150	ST : 90	220	ST : 130	0.25 dia. (5 μm dia./ 2 μm dia.)	E32-T33 1M	17-C		
	50		SHS: 20	75	SHS: 20						
Top-view	The sleeve cannot be bent.  15 0.82 dia. IP67	R10	510	ST : 300	760	ST : 450	0.5 dia. (5 μm dia./ 2 μm dia.)	E32-T21-S1 2M <i>NEW</i>	17-D		
	170		SHS: 68	250	SHS: 68						
Top-view	Sleeve bending radius: 5 mm.  11 90 1.2 dia. IP67	Flexible, R1	2,000	ST : 1,000	3,000	ST : 1,500	1 dia. (5 μm dia./ 2 μm dia.)	E32-TC200BR 2M	17-E		
	700		SHS: 280	1,050	SHS: 280						

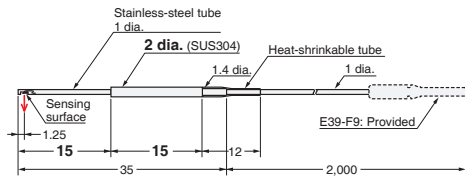
- Note 1.** The following mode names and response times apply to the modes given in the Sensing distance column.  
 [E3X-HD] GIGA: Giga-power mode (16 ms), HS: High-speed mode (250 μs), ST: Standard mode (1 ms), and SHS: Super-high-speed mode (NPN output: 50 μs, PNP output: 55 μs)  
 [E3NX-FA] GIGA: Giga-power mode (16 ms), HS: High-speed mode (250 μs), ST: Standard mode (1 ms), and SHS: Super-high-speed mode (30 μs)
- 2.** The values for the minimum sensing object are reference values that indicate values obtained in standard mode with the sensing distance and sensitivity set to the optimum values. The first value is for the E3X-HD and the second value is for the E3NX-FA.
- 3.** The sensing distances for E3NX-FA are values for E3NX-FA□ models. The distances for E3NX-FAH□ infrared models are different.

Dimensions

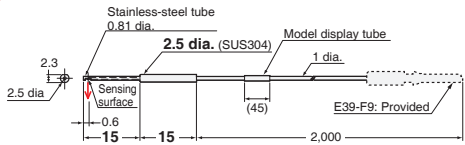
Installation Information → 60, 61 Page

Through-beam Fiber Units (Set of 2)

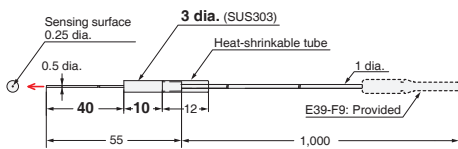
17-A E32-T24R 2M (Free Cutting)



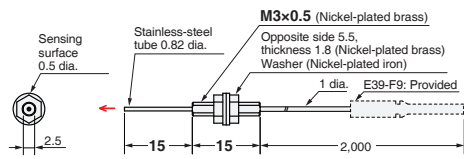
17-B E32-T24E 2M (Free Cutting)



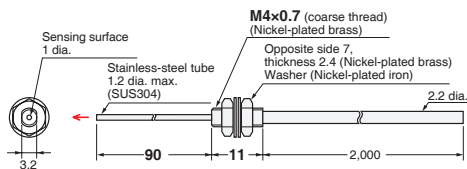
17-C E32-T33 1M (Free Cutting)



17-D E32-T21-S1 2M (Free Cutting)



17-E E32-TC200BR 2M (Free Cutting)




- Reference Information for Model Selection -

And

In case of bending sleeve

The E32-TC200BR has a bendable sleeve.  
Use the Sleeve Bender to bend them.

Sleeve Bender (sold separately)

Appearance	Applicable Fiber Units	Model
 Uses for the bending of the sleeve.	E32-TC200BR	E39-F11

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Cylindrical

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Narrow view

BGS

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Limited-reflective

Chemical-resistant, Oil-resistant

Bending

Heat-resistant

Area Detection

Liquid-level

Vacuum

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