

Accessories for E32

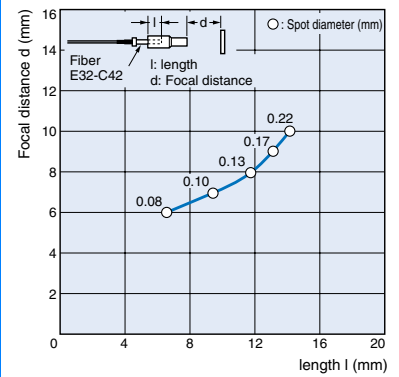
# E32

Lens Unit

Shape	Application	Name	Model	Quantity	Applicable Fiber
	Increased sensing distance	Long distance lens units	E39-F1	A total of two pcs.: One each for emitter and receiver	E32-T11L E32-TC200 E32-T11R E32-T11 E32-T61-S E32-T81R-S
	Conversion of detection direction into side view	side view unit	E39-F2		
	Conversion of through-beam model into long distance reflective model	Lens-equipped reflective Unit	E39-F3	One set	
	Conversion of through-beam model into side view reflective model	Reflective side view conversion attachment	E39-F5	1	E32-TC200A
	Detection at 0.1 to 0.6 mm dia. small spot	Small spot lens unit (variable)	E39-F3A	1	E32-C42 (3 mm dia.)
	Detection at 0.5 to 1 mm dia. small spot				E32-D32 (3 mm dia.)
	Focal length 7 mm Detection at 0.1 mm dia. spot	Small spot lens unit (fixed)	E39-F3A-5	1	E32-EC41
	Detection at 0.5 mm dia. spot in 7 mm focal length				E32-EC31
	17 mm focal length Detection at 0.2 mm dia. spot	Long distance/small spot lens unit (fixed)	E39-F3B	1	E32-EC41
	17 mm focal length Detection at 0.5 mm dia. spot				E32-EC31
	Short body for space-saving, max. 4 mm dia. spot in long 20 mm distance	Long distance lens unit (fixed)	E39-F3C	1	E39-EC31 E32-EC41
		Long distance lens unit	E39-F1V	2	E32-T51V and E32-T54V

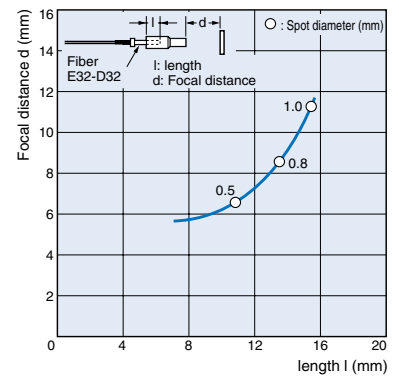
Beam spot characteristic

E39-F3A+E32-C42



Beam spot characteristic

E39-F3A+E32-D32

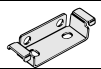
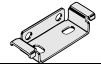
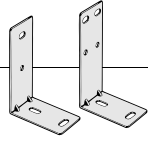
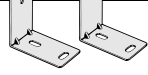



Reflectors

Shape	Name	Sensing distance (default)	Model	Quantity	Remarks
	Reflectors	1.5 m (150 mm) *	E39-R1	1	Retroreflective model attached to E32-R16.
	Small reflector	250 mm (25 mm) *	E39-R3	1	Retroreflective model attached to E32-R21.

\* Values in parentheses indicate the minimum required distance between the sensor and reflector.

Mounting Brackets

Shape	Applicable type	Model	Quantity	Remarks
	E3X-DA-N series	E39-L143	1	---
	E3X-DA□V	E39-L148		
	E32-T16	E39-L4	1*	Attached to the product.
	E32-T16P	E39-L94	2	---
	E32-T54V	E39-L54V	2	---

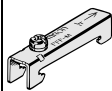
\* For the through-beam type, please order two pcs. for the emitter and receiver.

Note: For details, refer to "Mounting bracket list".




Operating Instructions Sticker

Model	Remarks
E39-Y1	Apply this seal to near the sensor.






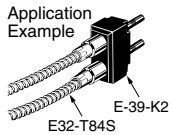
End Plate

Shape	Model	Quantity
	PFP-M	1

Protective Spiral Tubes

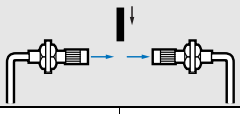
Shape	Application	Model	Tube length	Applicable Fiber
	For protection of fiber	E39-F32A5	500 mm	E32-DC200E E32-D21 E32-DC200F(4) E32-D21R
		E39-F32A	1 m	
		E39-F32B5	500 mm	E32-T21L E32-TC200F(4) E32-TC200E E32-T21 E32-EC31 E32-T21R
		E39-F32B	1 m	
		E39-F32C5	500 mm	E32-T11L E32-T11 E32-TC200 E32-T51 E32-TC200B(4) E32-T11R
		E39-F32C	1 m	
		E39-F32D5	500 mm	E32-D11L E32-D11 E32-DC200 E32-CC200 E32-DC200B(4) E32-ED51 E32-ED11R
		E39-F32D	1 m	

Other Accessories

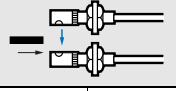
Shape	Application	Name	Model	Applicable Fiber	Remarks
	Used for free cutting of fiber	Fiber Cutter	E39-F4	All fiber unit models that enable free cut	Attached to the fibers that can be cut freely.
	Attachments for small diameter fibers for insertion into amplifier	Attachments for small diameter fibers	E39-F9	E32-T21L E32-DC200E E32-T22L E32-DC200F(4) E32-TC200E E32-D33 E32-T22 E32-ED21R E32-T22R E32-D21 E32-TC200F(4) E32-D32 E32-T21 E32-D24 E32-T24 E32-D24R E32-T24R E32-R21 E32-D21L E32-EC31 E32-ED21R E32-A03 E32-D22L E32-A04 E32-D22R	---
	Used for adding to fiber	Fiber Connector	E39-F10	E32-T11L E32-T14 E32-T12L E32-G14 E32-T17L E32-D11L E32-TC200 E32-DC200 E32-TC200A E32-DC200B(4) E32-TC200B(4) E32-D14L E32-T14L E32-D12	---
	Used for bending the sleeve of sleeved fiber	Sleeve Bender	E39-F11	E32-TC200B(4) E32-TC200F(4) E32-DC200F(4)	---
	Prevention of fiber unit mounting section from breakage	Protective Attachment	E39-K2	E32-T61-S E32-T84S	Application Example 

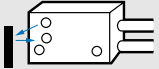
Rating/Performance

Lens Unit

Item	Name	Long distance lens units						
	Application	Increased sensing distance						
	Model	E39-F1						
	Sensor type	Through-beam 						
Applicable Fiber		E32-T11L	E32-TC200	E32-T61	E32-T11	E32-ET11R	E32-T81R-S	
E3X-DA-N	Sensing distance	Super-long-distance	4,000 mm	4,000 mm *	4,000 mm *	4,000 mm *	4,000 mm *	2,600 mm
		Standard	3,200 mm	4,000 mm *	3,400 mm	3,600 mm	3,700 mm	2,100 mm
		Super-high-speed	1,200 mm	2,100 mm	1,300 mm	1,300 mm	1,400 mm	750 mm
Standard sensing object		Opaque: 4 mm dia. min.						
Directional angle		5 to 40°						
Differential distance		---						
Ambient temperature		Use the unit within the operating temperature range of the fiber used. When used with E32-T61-S, use the unit within the range -40 to +200°C.						
Material	Tube:	Brass						
	Lens	Optical glass						

\* These models allow a longer sensing distance because their optical fiber length is 2 m.

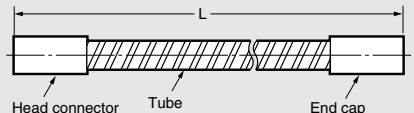
Item	Name	side view unit						
	Application	Conversion of detection direction into side view						
	Model	E39-F2						
	Sensor type	Through-beam 						
Applicable Fiber		E32-T11L	E32-TC200	E32-T61-S	E32-T11	E32-ET11R	E32-T81R-S	
E3X-DA-N	Sensing distance	Super-long-distance	900 mm	800 mm	570 mm	780 mm	500 mm	350 mm
		Standard	800 mm	700 mm	450 mm	660 mm	400 mm	280 mm
		Super-high-speed	400 mm	300 mm	170 mm	250 mm	150 mm	100 mm
Standard sensing object		Opaque: 3 mm dia. min.						
Directional angle		20 to 60°						
Ambient temperature		Use the unit within the operating temperature range of the fiber used. When used with E32-T61-S, use the unit within the range -40 to +200°C.						
Material	Tube:	Brass						
	Lens	Optical glass						

Item	Name	Reflective side view conversion attachment unit	
	Application	Conversion of through-beam model into side view reflective model	
	Model	E39-F5	
	Sensor type	Reflective model 	
Applicable Fiber		E32-TC200A	
E3X-DA-N	Sensing distance (Standard sensing object)	White paper super-long-distance	1 to 130 mm (100 x 100 mm)
		White paper Standard	1 to 120 mm (100 x 100 mm)
		White paper super-high-speed	2 to 45 mm (100 x 100 mm)
Differential distance		20% max. of sensing distance	
Ambient temperature		-40° to 70°C (with no icing or condensation)	
Material	Base:	Brass	
	Reflector:	Stainless steel	

Lens Unit (E39-F3□ series)

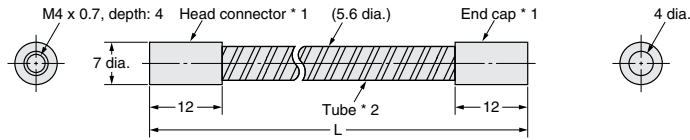
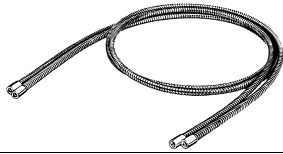
Item	Name	Spot lens unit						
	Spot diameter	Adjustable in the range 0.5 to 1.0 mm dia.	Adjustable in the range 0.1 to 0.6 mm dia.	Focal length 7mm 0.5 mm dia. fixed	Focal length 7mm 0.1 mm dia. fixed	Focal length 17mm 0.5 mm dia. fixed	Focal length 17mm 0.2 mm dia. fixed	4 mm max. at 0 to 20 mm
Model		E39-F3A		E39-F3A-5		E39-F3B		E39-F3C
Applicable fiber type		E32-D32	E32-C42	E32-EC31	E32-EC41	E32-EC31	E32-EC41	E32-EC31 E32-EC41
Material	Tube:	Aluminum						
	Lens	Optical glass						

Protective Spiral Tubes

Item	Model	E39-F32A5	E39-F32A	E39-F32B5	E39-F32B	E39-F32C5	E39-F32C	E39-F32D5	E39-F32D
	Sensor type								
Ambient temperature	Operating/Storage: -40 to +150°C (Use the fiber placed inside within the operating temperature of that fiber)								
Ambient humidity	Operating: 35% to 85% Storage: 35% to 95%								
Bending radius	30 mm min.								
Tensile strength	Between head connector or end cap and tube: 1.5 Nm max., tube: 2 Nm max.								
Compression load	Tube: 29.4 N max.								
Material	Head connector	Brass nickel plating							
	End cap	Brass nickel plating							
	Tube	Stainless steel (SUS304)							



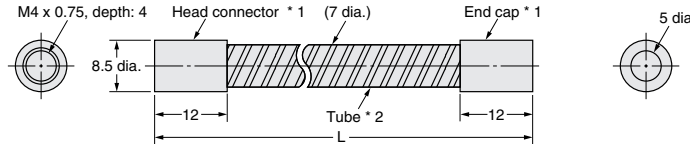
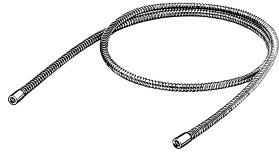
E39-F32C, F32C5



\* 1. Nickel-plated brass  
\* 2. SUS304 stainless-steel

Note: L is as follows: E39-F32C: 1,000, E39-F32C5: 500

E39-F32D/F32D5

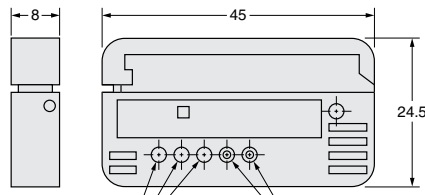


\* 1. Nickel-plated brass  
\* 2. SUS304 stainless-steel

Note: L is as follows: E39-F32D: 1,000 E39-F32A5, E39-F32D5: 500

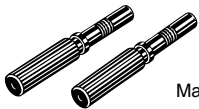
Other Accessories

E39-F4 Fiber Cutter



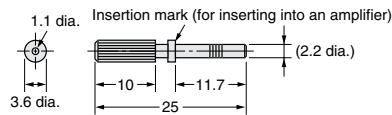
Standard fiber insertion hole Thin fiber insertion hole

E39-F9 Attachment for Thin Fiber

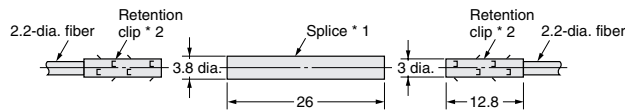


Material: ABS

Note: One set includes two units.  
Included with Thin Fiber Unit.

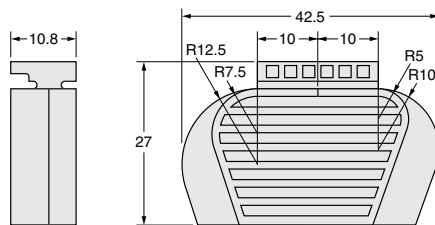


E39-F10 Fiber Connector



\* 1. Polyester  
\* 2. Brass

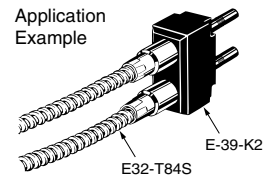
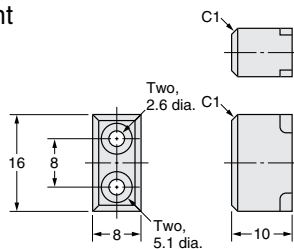
E39-F11 Sleeve Bender



E39-K2 Protective Attachment



Material: ABS



ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.  
To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.