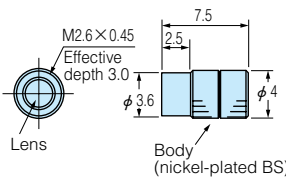
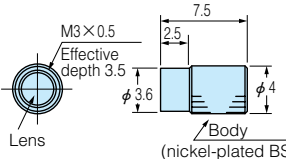
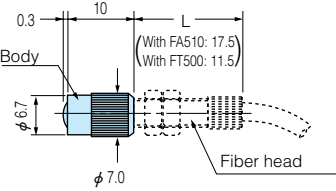
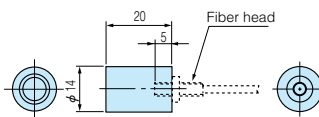
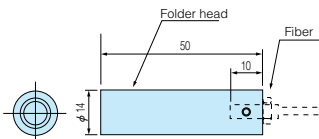
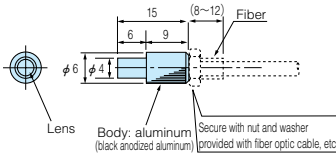


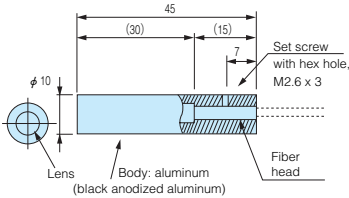
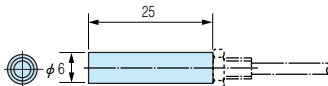
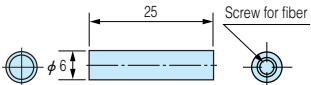
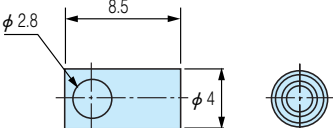
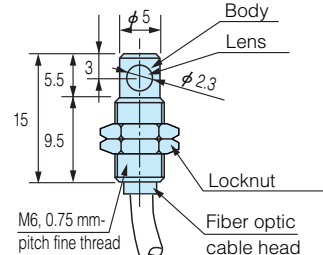
Fiber Optic Cables

Attachments

Type/Model	Description	Dimensions (mm)	Remarks																																										
Lens unit	FA714 	- For fiber optic cable with two-tiered screw And M2.6 tip - Does not apply to reflective types 	Detecting distance (mm) <table><tr><th>Fiber optic cable</th><th>Amplifier</th><th>F80R</th><th>F70R F70AR</th><th>F71R</th><th>F2R</th></tr><tr><td></td><td>Long-distance</td><td>High-speed</td><td></td><td></td><td></td></tr><tr><td>FT7BC</td><td>3400</td><td>1900</td><td>1900</td><td>1150</td><td>500</td></tr><tr><td>FTH7BC</td><td>3400</td><td>1900</td><td>1900</td><td>1150</td><td>500</td></tr></table> (With lens attached to transmitter and receiver)		Fiber optic cable	Amplifier	F80R	F70R F70AR	F71R	F2R		Long-distance	High-speed				FT7BC	3400	1900	1900	1150	500	FTH7BC	3400	1900	1900	1150	500																	
	Fiber optic cable	Amplifier	F80R	F70R F70AR	F71R	F2R																																							
		Long-distance	High-speed																																										
	FT7BC	3400	1900	1900	1150	500																																							
	FTH7BC	3400	1900	1900	1150	500																																							
FA814 	- For fiber optic cables with M3, 0.5 mm-pitch screw - Does not apply to reflective types 	Detecting distance (mm) <table><tr><th>Fiber optic cable</th><th>Amplifier</th><th>F80R</th><th>F70R F70AR</th><th>F71R</th><th>F2R</th></tr><tr><td></td><td>Long-distance</td><td>High-speed</td><td></td><td></td><td></td></tr><tr><td>FT8EBC</td><td>3400</td><td>1900</td><td>1900</td><td>1200</td><td>500</td></tr><tr><td>FT8BC</td><td>3400</td><td>1900</td><td>1900</td><td>1200</td><td>500</td></tr><tr><td>FT19YBC</td><td>1000</td><td>570</td><td>570</td><td>350</td><td>120</td></tr><tr><td>FT108BC</td><td>3400</td><td>1900</td><td>1900</td><td>1200</td><td>500</td></tr><tr><td>GTKseries</td><td>—</td><td>—</td><td>—</td><td>—</td><td>450</td></tr></table> (With lens attached to transmitter and receiver)		Fiber optic cable	Amplifier	F80R	F70R F70AR	F71R	F2R		Long-distance	High-speed				FT8EBC	3400	1900	1900	1200	500	FT8BC	3400	1900	1900	1200	500	FT19YBC	1000	570	570	350	120	FT108BC	3400	1900	1900	1200	500	GTKseries	—	—	—	—	450
Fiber optic cable	Amplifier	F80R	F70R F70AR	F71R	F2R																																								
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FT108BC	3400	1900	1900	1200	500																																								
GTKseries	—	—	—	—	450																																								
形式・FA514 	- For through-beam fiber optic cables with M4, 0.7 mm-pitch screw - Does not apply to reflective types - Increases sensing distance by 10 times (with $\phi 1.0$ fiber optic cable core) 	Also applicable to fiber optic cables with $\phi 0.5$, 1.0 or 1.5 core.																																											
FA205 	- For through-beam fiber optic cables with M4, 0.7 mm-pitch screw - Increases sensing distance by 20 times (with $\phi 1.0$ fiber optic cable core) 	Also applicable to fiber optic cables with $\phi 0.5$, 1.0 or 1.5 core.																																											
FA200 	For coaxial reflective fiber optic cables with M4, 0.7 mm-pitch screw		Applicable fiber optic cable: FX**BC and FX200J Series excluding FX801BC	Detecting distance: 10-11 mm / Spot diameter: 0.5-0.3 mm																																									
FA240 		Detecting distance: 7-16 mm Spot diameter: 0.6-1.7 mm																																											

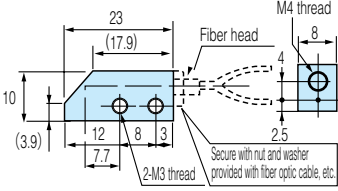
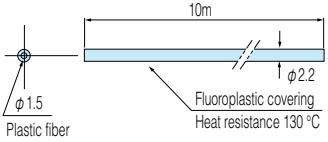
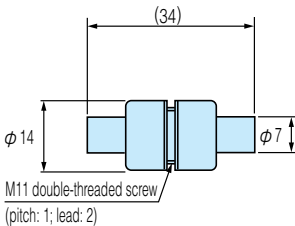
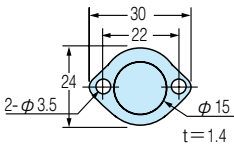
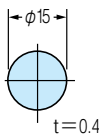
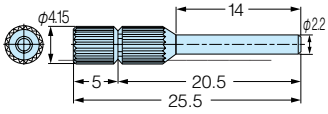
Fiber Optic Cables

Attachments

Type/Model	Description	Dimensions (mm)	Remarks	
FA250  FA260  FA263  FA261 	Lens unit		Applicable fiber optic cable: Coaxial reflective FX**BC and FX200J Series excluding FX801BC	Detection distance: 18-25 mm Spot diameter: 0.4-0.7 mm
				Detecting distance: 18 mm Spot diameter: approximately 0.5 mm
				Detecting distance: 35 mm Spot diameter: approximately 1.5 mm
				Detecting distance: 18 mm Spot diameter: approximately 0.5 mm
FA712 	• For through-beam fiber optic cable with two-tiered M4 screw with M2.6 tip		Applicable fiber optic cable: fiber optic cables with two-tiered screw with M2.6 tip (FTH7BC, FT7BC)	Detecting distance not affected
FA12F5 	• Attachable to through-beam fiber optic cable with M4, 0.7 mm-pitch screw for side-on use			

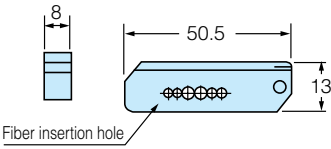
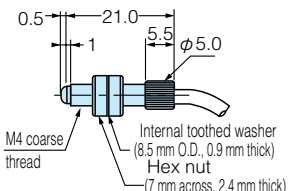
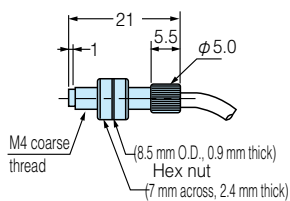
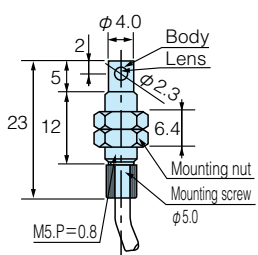
Fiber Optic Cables

Attachments

Type/Model	Description	Dimensions (mm)	Remarks
FA252 	Attachable to reflective fiber optic cable with M4, 0.7 mm-pitch screw for side-on use		Detecting distances depend on the insertion length of fiber optic cables.
FA6001FE 	PFA-covered fiber optic cable allows use in high-temperature atmosphere of up to 130 °C		Applicable to all amplifiers. Use the fiber optic cable attachment specified.
FA7CN 	Convenient for extending fiber optic cables when they are broken, etc. (Use fiber optic cables with cores of the same diameter on both sides of the connector.)		Applicable fiber optic cable Outer diameter: 2.2 mm Core diameter: 1.0, 1.5mm
S-15B 	- For use of fiber optic sensors in combination with reflectors. - Although reflectors increase detecting distances, the sensitivity must be reduced for preventing false detection due to diffuse reflection.		With base Mount by screwing or with adhesive
S-15 			Without base Mount with adhesive
Model FA191BC (gray): $\phi 1$ Model FA181BC (black): $\phi 1.25$ 	Adapters for small-diameter fiber optic cables.		Applicable amplifiers F2R Series F71 Series F70 Series F80R Series

Fiber Optic Cables

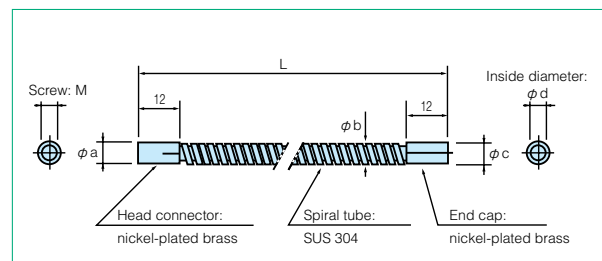
Attachments

Type/Model	Description	Dimensions (mm)	Remarks
Fiber cutter 	Cuts fiber optic cable to an arbitrary length according to the installation situation.		Be sure to cut one cable at a time and use one hole of cutter once only.
Fiber optic cable attachment Model • FA511 	Lens unit for through-beam fiber optic cables.		For longer detecting distances
Model • FA510 	Head without lens for through-beam fiber optic cables.		Applicable fiber optic cable Outer diameter: 2.2 mm Core diameter: 0.5, 1.0, 1.5mm
Model • FA512 	Side-view unit for through-beam fiber optic cables.		Detecting distance not affected

Fiber Protector

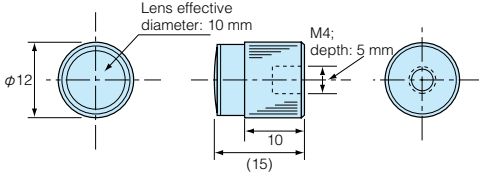
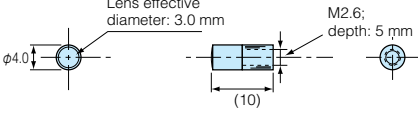
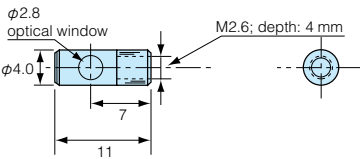
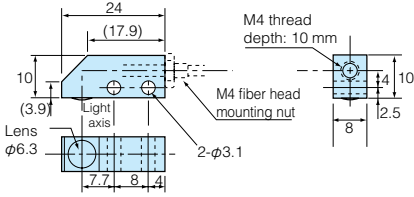
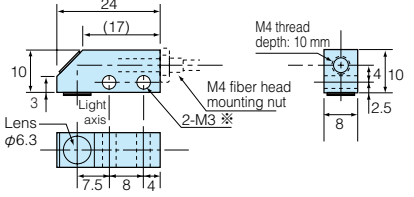
Model	FA3SP10	FA4SP10	FA6SP10
Length : Lmm	1000mm		
Dimensions			
ϕa	$\phi 6.0$		$\phi 8.5$
ϕb	$\phi 4.8$		$\phi 7.0$
ϕc	$\phi 6.0$		$\phi 8.5$
ϕd	$\phi 3.0$		$\phi 5.0$
Screw: M	M3x0.5 Depth: 4	M4x0.7 Depth: 4	M6x0.75 Depth: 4
Applicable fiber optic cable	FT8BC FT8EBC FTS8BC FTS88BC	FT5BC FT7BC FR84BC FRS84BC FX84BC FTS5BC FTS53BC FTSV5BC	FR7BC FRH7BC FX7BC
Allowable bending radius	R30 mm min.		
Tensile strength (at normal temperature)	1.5 N·m between tube and head connector, end cap, tube (2.0 N·m)		
Compressive load	Tube: 30 N		

Dimensions (in mm)



Fiber Optic Cables

Attachments

Type/Model	Description	Dimensions (mm)	Remarks
FA515	 Round for M4 screw		Body: SUS304 Lens: Glass Upper temperature limit: 350°C
FA714H	 Round for M2.6 screw		Body: SUS304 Lens: Glass Upper temperature limit: 350°C
FA712H	 Round side-view for M2.6 screw		Body: SUS304 Lens: Glass Upper temperature limit: 350°C
FA252M			Body: SUS304 Lens: Glass Upper temperature limit: 200°C
FA252H-□※	 Square side-view for M4 screw		Body: SUS304 Lens: Glass Upper temperature limit: 350°C * -B φ3.1