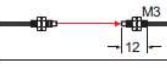
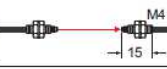
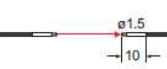
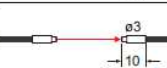
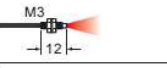
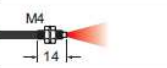
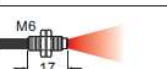
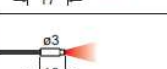


Thru-beam type (one pair set)

Type	Shape of fiber head (mm)	Model No.	Bending radius (mm)	Fiber cable length Free-cut	Sensing range (mm in)			Beam axis dia. (mm)	Beam axis position/ Inclination of beam axis	Optical transmission loss	Protection	Ambient temp.
					FX-500 series	U-LG LONG FAST H-SP	FX-101 (Upper value) FX-102 (Lower value)					
Threaded	M3 	Tough NEW FT-30	R2 Bending durability	2 m	STD 400 15.748	810 31.890 650 25.591	135 5.315 400 15.748	ø0.5	150 µm /±2°	±10 %	IP67	-55 to +80 °C
	M4 	Tough NEW FT-40	R4 Bending durability		HYPR 1,350 53.150	2,200 86.614 1,700 66.929 530 20.866 190 7.480	320 12.598 870 34.252					
Cylindrical	ø1.5 	Tough NEW FT-S20	R2 Bending durability		STD 400 15.748	810 31.890 650 25.591	135 5.315 400 15.748	ø0.5				
	ø3 	Tough NEW FT-S30	R4 Bending durability		HYPR 1,350 53.150	2,200 86.614 1,700 66.929 530 20.866 190 7.480	320 12.598 870 34.252					

Note: The fiber cable length practically limits the sensing range.

Reflective type

Type	Shape of fiber head (mm)	Model No.	Bending radius (mm)	Fiber cable length Free-cut	Sensing range (mm in) (Note)			Beam axis position/ Inclination of beam axis	Optical transmission loss	Protection	Ambient temp.
					FX-500 series	U-LG LONG FAST H-SP	FX-101 (Upper value) FX-102 (Lower value)				
Threaded	M3 	Tough NEW FD-30	R2 Bending durability	2 m	STD 160 6.299	330 12.992 250 9.843	45 1.772 155 6.102	150 µm /±3°	±10 %	IP67	-55 to +80 °C
	M4 	Tough NEW FD-40	R4 Bending durability		HYPR 600 23.622	900 35.433 740 29.134 260 10.236 90 3.543	140 5.512 420 16.535				
	M6 	Tough NEW FD-60	R4 Bending durability		STD 520 20.472	1,550 61.024					
Cylindrical	ø3 	Tough NEW FD-S30	R4 Bending durability		STD 160 6.299	330 12.992 250 9.843	45 1.772 155 6.102				
					HYPR 600 23.622	900 35.433 740 29.134 260 10.236 90 3.543	140 5.512 420 16.535				

Note: The sensing range is specified for white non-glossy paper.