02 Thread type

Related products

Fiber amplifier
D3RF
P.110

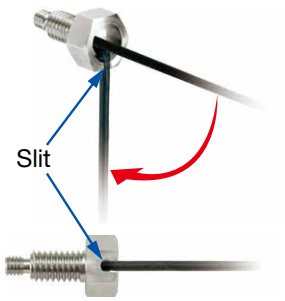
Fiber amplifier
BRF
P.130

Type that can be mounted with a threaded nut Fiber units

- **Adjustable mounting type that switches between straight view and side view also available**
- **A metal sheath type that protects against cable breakage, as well as lens attachable models are available.**

New concept Straight view/side view switchable type Switchable direction

The NF-TR14 can be used as a side view type by bending the fiber cable to fit the slit in the side of the nut. This fiber unit is a completely new concept that allows switching between side view and straight view according to mounting conditions.



For straight view

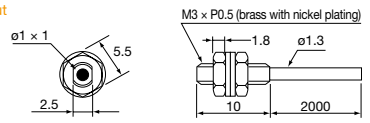
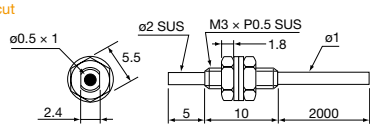
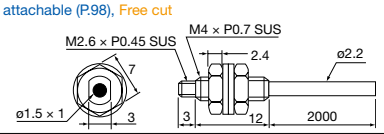
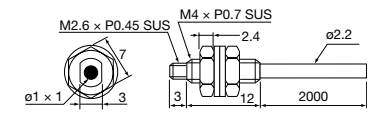
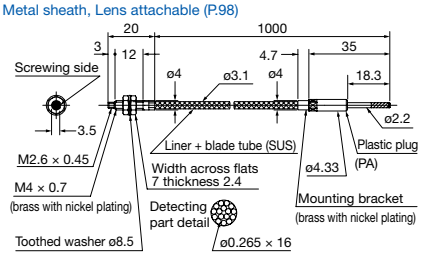
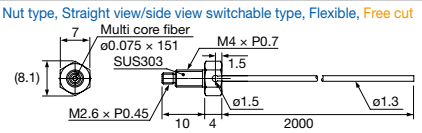
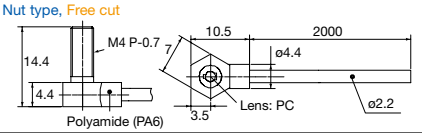
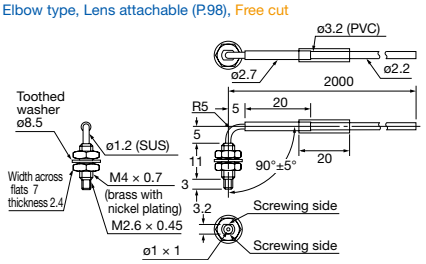
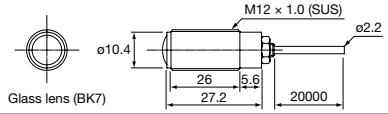
For side view

Metal sheath type Breakage prevention

Stainless steel mesh structure sheath protects the fiber cable and prevents fiber cable breakage due to snagging. The bending radius R10 mm allows the cable to bend in tight areas without breaking.

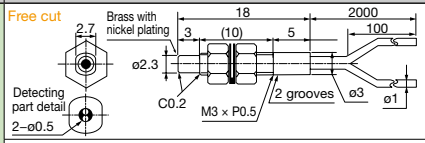
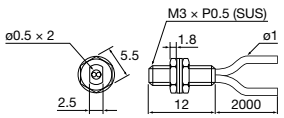
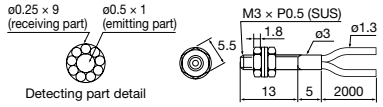
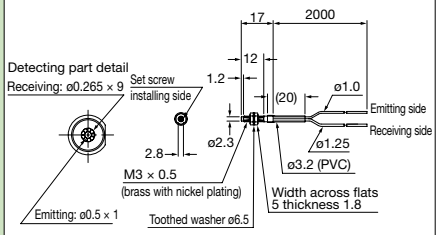
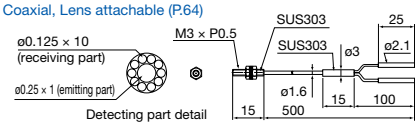
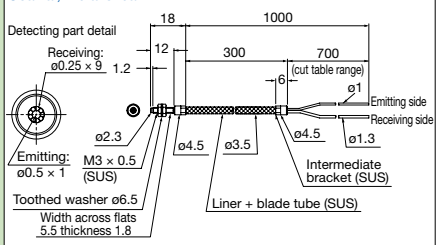
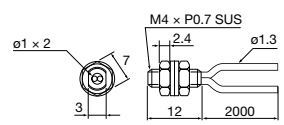
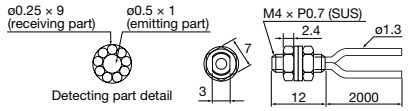
Through-beam type: NF-TJ01 Diffuse type: NF-DJ01, NF-DJ02

Thread type fiber units (through-beam type)

Type		Features/dimensions (mm)	Sensing distance (mm) D3RF	Sensing distance (mm) D2RF	Sensing distance (mm) BRF	Ambient temperature	Bending radius (mm)	Model
Through-beam type	M3	Free cut 	7-EL 3,500 6-UL 2,100 5-PL 1,600 4-LG 1,400 3-ST 1,000 2-FS 550 1-HS 175	Long 1,000 Std 500 Fast 250	450	-40 to +70°C	R25	NF-TM01
		Free cut 	7-EL 900 6-UL 550 5-PL 400 4-LG 350 3-ST 250 2-FS 140 1-HS 45	Long 350 Std 200 Fast 90	120	-40 to +70°C	R15	NF-TM02
	M4	Lens attachable (P.98), Free cut 	7-EL 4,000 6-UL 3,000 5-PL 2,200 4-LG 1,900 3-ST 1,400 2-FS 750 1-HS 250	Long 1,800 Std 800 Fast 450	700	-40 to +70°C	R30	NF-TB01 Low cost
		Lens attachable (P.98), Free cut 	7-EL 4,000 6-UL 2,000 5-PL 1,600 4-LG 1,400 3-ST 1,000 2-FS 550 1-HS 175	Long 1,000 Std 500 Fast 250	450	-40 to +70°C	R25	NF-TB02
		Metal sheath, Lens attachable (P.98) 	7-EL 1,590 6-UL 1,440 5-PL 1,260 4-LG 1,140 3-ST 740 2-FS 410 1-HS 130	Long 350 Std 220 Fast 110	300	-40 to +60°C	R10	NF-TJ01 Breakage prevention
		Nut type, Straight view/side view switchable type, Flexible, Free cut 	7-EL 3,800 6-UL 2,700 5-PL 2,200 4-LG 1,800 3-ST 1,200 2-FS 800 1-HS 300	Long 1,300 Std 600 Fast 300	400	-40 to +60°C	R2	NF-TR14 Switchable direction
		Nut type, Free cut 	7-EL 2,500 6-UL 1,400 5-PL 1,300 4-LG 1,000 3-ST 750 2-FS 350 1-HS 100	Long 800 Std 600 Fast 200	350	-40 to +70°C	R25	NF25-T Space-saving
		Elbow type, Lens attachable (P.98), Free cut 	7-EL 1,440 6-UL 1,350 5-PL 1,170 4-LG 1,060 3-ST 690 2-FS 430 1-HS 130	Long 750 Std 450 Fast 200	350	-40 to +70°C	R25	NF-TB06
	M12	Super long distance with large lens, Fiber length 20 m, Free cut 	7-EL 38,000 6-UL 25,000 5-PL 20,000 4-LG 18,000 3-ST 12,000 2-FS 7,000 1-HS 1,800	Long 12,000 Std 6,500 Fast 3,500	2,800	-40 to +70°C	R30	NF-TX01

●Install with an ambient humidity between 35 and 85%. In the case of 85% RH, the ambient temperature should be between 0 and 40°C.

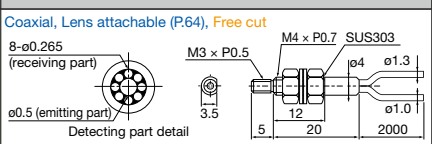
Thread type fiber units (through-beam type/diffuse type)

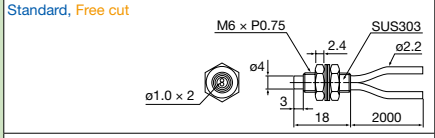
Type		Features/dimensions (mm)	Sensing distance (mm) D3RF	Sensing distance (mm) D2RF	Sensing distance (mm) BRF	Ambient temperature	Bending radius (mm)	Model
Diffuse type	M3	Free cut 	7-EL 300 6-UL 160 5-PL 150 4-LG 120 3-ST 80 2-FS 40 1-HS 10	Long 100 Std 50 Fast 25	35	-40 to +70°C	R15	FD-TT2 Low cost
		Standard, Free cut 	7-EL 400 6-UL 200 5-PL 190 4-LG 160 3-ST 100 2-FS 50 1-HS 10	Long 100 Std 60 Fast 30	45	-40 to +70°C	R15	NF-DS06
		Coaxial, Lens attachable (P.64), Free cut 	7-EL 500 6-UL 300 5-PL 250 4-LG 225 3-ST 150 2-FS 100 1-HS 30	Long 250 Std 120 Fast 50	70	-40 to +70°C	R15	NF-DT01
		Coaxial, Free cut 	7-EL 310 6-UL 290 5-PL 260 4-LG 220 3-ST 140 2-FS 70 1-HS 20	Long 170 Std 80 Fast 45	55	-40 to +60°C	R25	NF-DB07
		Coaxial, Lens attachable (P.64) 	7-EL 180 6-UL 110 5-PL 100 4-LG 85 3-ST 60 2-FS 40 1-HS 12	Long 70 Std 40 Fast 15	20	-40 to +70°C	R15	NF-DK21
		Coaxial, Metal sheath 	7-EL 180 6-UL 170 5-PL 150 4-LG 130 3-ST 80 2-FS 40 1-HS 10	Long 120 Std 50 Fast 30	50	-40 to +60°C	R10	NF-DJ01 Breakage prevention
	M4	Standard, Free cut 	7-EL 1,100 6-UL 650 5-PL 550 4-LG 450 3-ST 350 2-FS 200 1-HS 60	Long 400 Std 250 Fast 100	160	-40 to +70°C	R25	NF-DM01
		Coaxial, Lens attachable (P.64), Free cut 	7-EL 500 6-UL 300 5-PL 250 4-LG 225 3-ST 150 2-FS 100 1-HS 30	Long 250 Std 120 Fast 50	70	-40 to +70°C	R15	NF-DM02

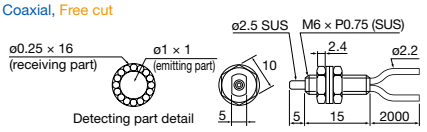
●The sensing distances for the diffuse type fiber units are values on 500 × 500 mm white paper.
●Install with an ambient humidity between 35 and 85%. In the case of 85% RH, the ambient temperature should be between 0 and 40°C.

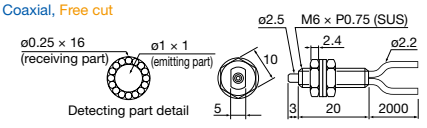
Thread type fiber units (diffuse type)

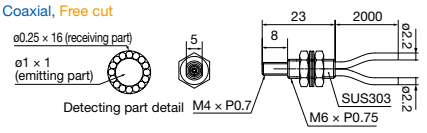
Type		Features/dimensions (mm)	Sensing distance (mm) D3RF	Sensing distance (mm) D2RF	Sensing distance (mm) BRF	Ambient temperature	Bending radius (mm)	Model
Diffuse type	M4	Coaxial, Lens attachable (P.64), Free cut	7-EL 680 / 6-UL 370 / 5-PL 270 / 4-LG 230 / 3-ST 150 / 2-FS 90 / 1-HS 20	Long 140 / Std 70 / Fast 30	70	-40 to +70°C	R15	NF-DM02-G4
	M6	Standard, Free cut	7-EL 1,200 / 6-UL 750 / 5-PL 650 / 4-LG 550 / 3-ST 400 / 2-FS 250 / 1-HS 80	Long 400 / Std 250 / Fast 100	160	-40 to +70°C	R25	NF-DK06
		Coaxial, Free cut	7-EL 1,200 / 6-UL 750 / 5-PL 650 / 4-LG 550 / 3-ST 400 / 2-FS 250 / 1-HS 75	Long 450 / Std 250 / Fast 100	150	-40 to +70°C	R25	NF-DB01 Low cost
		Coaxial, Free cut	7-EL 1,200 / 6-UL 750 / 5-PL 650 / 4-LG 575 / 3-ST 400 / 2-FS 250 / 1-HS 75	Long 450 / Std 250 / Fast 100	150	-40 to +70°C	R25	NF-DB03
		Coaxial, Free cut	7-EL 1,200 / 6-UL 650 / 5-PL 550 / 4-LG 500 / 3-ST 300 / 2-FS 150 / 1-HS 50	Long 450 / Std 250 / Fast 100	80	-40 to +70°C	R25	NF-DB04
		Nut type, Free cut	7-EL 550 / 6-UL 330 / 5-PL 240 / 4-LG 200 / 3-ST 150 / 2-FS 90 / 1-HS 23	Long 120 / Std 80 / Fast 25	45	-40 to +70°C	R25	NF25-D Space-saving
		Elbow type, Free cut	7-EL 540 / 6-UL 510 / 5-PL 450 / 4-LG 390 / 3-ST 250 / 2-FS 140 / 1-HS 40	Long 300 / Std 150 / Fast 60	100	-40 to +70°C	R25	NF-DB09
		Metal sheath	7-EL 440 / 6-UL 410 / 5-PL 360 / 4-LG 310 / 3-ST 200 / 2-FS 100 / 1-HS 30	Long 280 / Std 150 / Fast 70	100	-40 to +70°C	R10	NF-DJ02 Breakage prevention

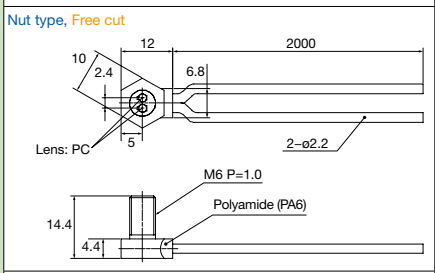


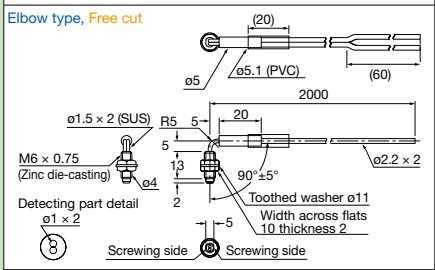


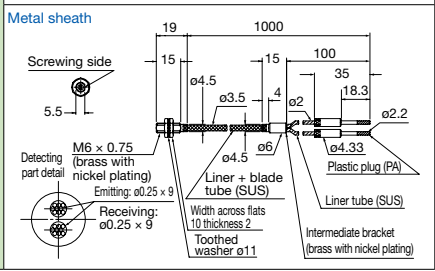












●The sensing distances for the diffuse type fiber units are values on 500 × 500 mm white paper (1000 × 1000 mm white paper for NF25-D).
●Install use with an ambient humidity between 35 and 85%. In the case of 85% RH, the ambient temperature should be between 0 and 40°C.