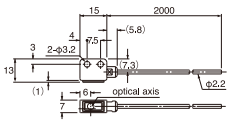
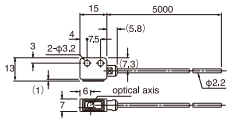
CHEMICAL RESISTANT

Fluoroplastic (PFA) sheath provides superior chemical resistance

High resistance to harsh chemicals

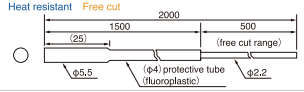
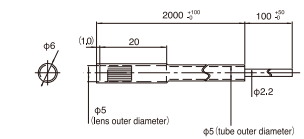
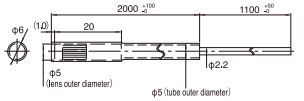
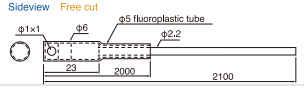
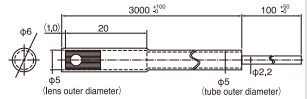
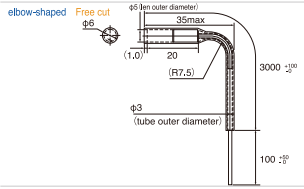
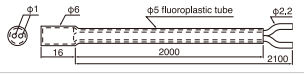
PFA encased fiber sensors are an excellent choice for reliable detection in harsh chemical, extreme temperature, and highly abrasive enviroments. Eight thrubeam and one diffuse models to choose from.

Specifications (Thru-beam)

	Sensing head	Sensing distance (unit=mm) Value in parenthesis is the Minimum detectable object size. (copper wire) D3RF	D2RF	BRF	Operation temperature (℃~℃)	Radius (mm)	Part Number
Thru-beam Square	Side ON Free cut 	7-EL 3,600 6-UL 3,600 5-PL 3,600 4-LG 3,150 3-ST 2,000 2-FS 2,000 1-HS 750	Long 3,500 Std 2,500 Fast 1,300	2,000	0~60	R=25	NF-TY05
	Side ON length of fiber : 5m Free cut 	7-EL 3,600 6-UL 3,600 5-PL 3,600 4-LG 3,200 3-ST 2,000 2-FS 1,600 1-HS 550	Long 3,000 Std 2,000 Fast 1,000	1,500	0~60	R=25	NF-TY05-5

Operating humidity is 35~85%RH. Please use in 0~40℃ when it's 85%RH

Specifications (Limited Diffuse)

		Sensing head	Sensing distance (unit=mm) Value in parenthesis is the Minimum detectable object size. (copper wire) D3RF	D2RF	BRF	Operation temperature (℃~℃)	Radius (mm)	Part Number
Thru-beam	φ5.5	Heat resistant Free cut 	7-EL 3,600 6-UL 3,600 5-PL 3,300 4-LG 2,880 / 3-ST 1,890 2-FS 1,890 1-HS 660	Long 3,500 Std 2,300 Fast 1,200	2,000	−40~115	R=30	NF-TY04
	φ6	Heat resistant Free cut 	7-EL 4,000 6-UL 4,000 5-PL 4,000 4-LG 3,000 3-ST 2,800 2-FS 2,000 1-HS 700	Long 3,500 Std 2,500 Fast 1,200	2,000	−40~105	R=60	NF-TY01
		Heat resistant length of fiber : 3m Free cut 	7-EL 4,000 6-UL 4,000 5-PL 4,000 4-LG 3,500 3-ST 3,000 2-FS 1,700 1-HS 500	Long 2,200 Std 1,300 Fast 550	650	−40~105	R=60	NF-TY01-3
		Sideview Free cut 	7-EL 4,000 6-UL 3,500 5-PL 2,800 4-LG 2,000 / 3-ST 1,500 2-FS 700 1-HS 200	Long 1,500 Std 800 Fast 400	500	−40~70	R=60	NF-TY02
		Sideview Free cut 	7-EL 4,000 6-UL 3,500 5-PL 3,000 4-LG 2,000 3-ST 1,500 2-FS 700 1-HS 200	Long 1,500 Std 800 Fast 400	480	−40~70	Fiber R=25 Tube R=60	NF-TY02-TF3
		elbow-shaped Free cut 	7-EL 4,000 6-UL 4,000 5-PL 3,500 4-LG 3,000 3-ST 2,200 2-FS 1,000 1-HS 300	Long 3,000 Std 1,700 Fast 800	900	−55~70	Fiber R=20 Tube R=20	NF-TY03-TF3
Diffuse	φ6	Heat resistant Free cut 	7-EL 440 6-UL 280 5-PL 250 4-LG 225 / 3-ST 160 2-FS 745 1-HS 85	Long 100 Std 70 Fast 50	45	−40~100	R=60	NF-DY01

Operating humidity is 35~85%RH. Please use in 0~40℃ when it's 85%RH.