

Specifications / 規格表

Type	型號/ Model	尺寸/ Dimensions	規格/ Datasheet
反射型 (Reflective)	FRB-420 Free cut		*Fiber Type : Standard *Sensing distance(BR2/L999) : 160mm *Operate temperature : -55°C ~+70°C *Minimum bending radius : R25 *Fiber diameter : OD=Ø1.3 ID=Ø1.0
	M4 FRC-420-84BC Free cut		*Fiber Type : Coaxial *Sensing distance(BR2/L999) : 60mm *Operate temperature : -55°C ~+70°C *Minimum bending radius : R15 *Fiber diameter : OD=Ø1.25 ID=Ø0.5x1/ Ø0.25x10
	M3 FRC-310-35FA Free cut		*Fiber Type : Coaxial *Sensing distance(BR2/L999) : 60mm *Operate temperature : -55°C ~+70°C *Minimum bending radius : R15 *Fiber diameter : OD=Ø1.25 ID=Ø0.5x1/ Ø0.25x10
	M3 FRC-310-35FZ Free cut		*Fiber Type : Coaxial *Sensing distance(BR2/L999) : 60mm *Operate temperature : -55°C ~+70°C *Minimum bending radius : R15 *Fiber diameter : OD=Ø1.25 ID=Ø0.5x1/ Ø0.25x10
	FRC4-310 Free cut		*Fiber Type : Coaxial *Sensing distance(BR2/L999) : 14mm *Operate temperature : -55°C ~+70°C *Minimum bending radius : R15 *Fiber diameter : OD=Ø1.0 ID=Ø0.25x4
	Ø3 FRB-320-Q Free cut		*Fiber Type : Standard *Sensing distance(BR2/L999) : 160mm *Operate temperature : -55°C ~+70°C *Minimum bending radius : R25 *Fiber diameter : OD=Ø1.3 ID=Ø1.0
	Ø2 FRC-210-22X Free cut		*Fiber Type : Coaxial *Sensing distance(BR2/L999) : 60mm *Operate temperature : -55°C ~+70°C *Minimum bending radius : R15 *Fiber diameter : OD=Ø2.2 ID=Ø0.5x1/ Ø0.25x9

※ : M4 : Toothed Lock Washer Ø8.3
Width Across Flats 8mm, Thickness 2.3mm

※ : M3 : Toothed Lock Washer Ø6.4
Width Across Flats 5mm, Thickness 2.2mm

Specifications / 規格表

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Ø1.5	FRC7-110-Q20		*Fiber Type : Coaxial *Sensing distance(BR2/L999) : 40mm *Operate temperature : -55°C ~+70°C *Minimum bending radius : R5 *Fiber diameter : OD=Ø1.25 ID=Ø0.25x7
	FRC4-110 Free cut		*Fiber Type : Multiple Core *Sensing distance(BR2/L999) : 14mm *Operate temperature : -55°C ~+70°C *Minimum bending radius : R5 *Fiber diameter : OD=Ø1.0 ID=Ø0.25x4
	FRC4-110-H10 Free cut		*Fiber Type : Multiple Core *Sensing distance(BR2/L999) : 14mm *Operate temperature : -55°C ~+70°C *Minimum bending radius : R15 *Fiber diameter : OD=Ø1.0 ID=Ø0.25x4
反射型 (Reflective)	FRC7-305-24X		*Fiber Type : Coaxial *Sensing distance(BR2/L999) : 10mm *Operate temperature : -55°C ~+70°C *Minimum bending radius : R5 *Fiber diameter : ID=Ø0.175x7
	FRD-310-SQD Free cut Side view fiber		*Fiber Type : Precision *Sensing distance(BR2/L999) : 20mm *Operate temperature : -55°C ~+70°C *Minimum bending radius : R15 *Fiber diameter : OD=Ø1.25 ID=Ø0.5
	FR-FU40-20 Free cut		*Fiber Type : Reflective *Sensing distance(BR2/L999) : 480mm *Operate temperature : -55°C ~+70°C *Minimum bending radius : R25 *Fiber diameter : OD=Ø2.2 ID=Ø1.0
	FR-10ML-20 Free cut Array Fiber		*Fiber Type : Multiple Core *Sensing distance(BR2/L999) : 50mm *Operate temperature : -55°C ~+70°C *Minimum bending radius : R5 *Fiber diameter : OD=Ø1.25 ID=Ø0.25x9/ Ø0.25x9
特殊型 (Other Type)			

Fiber Sensor

PR /PT

FR /FT

Glass Fiber

Light Guide

Silica Fiber

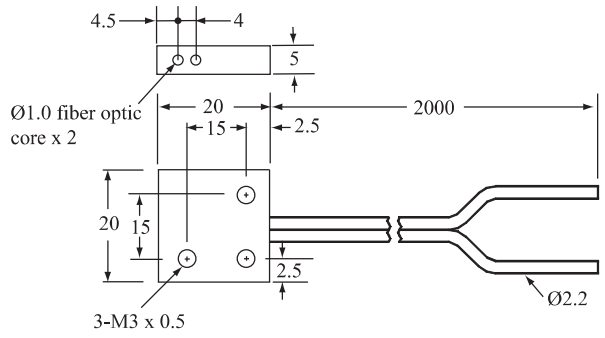
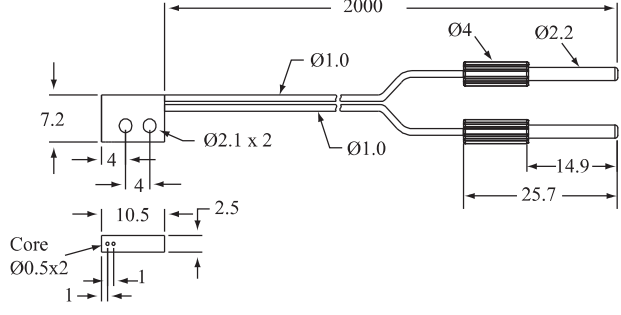
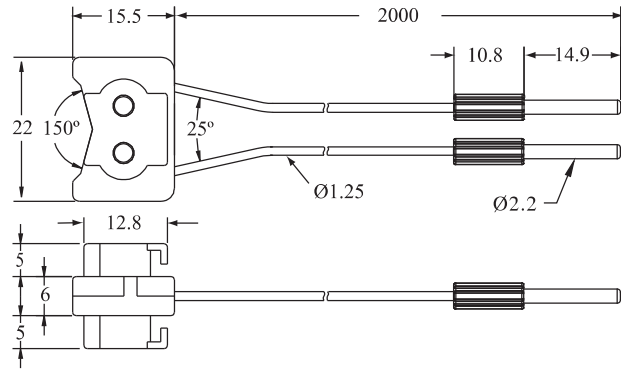
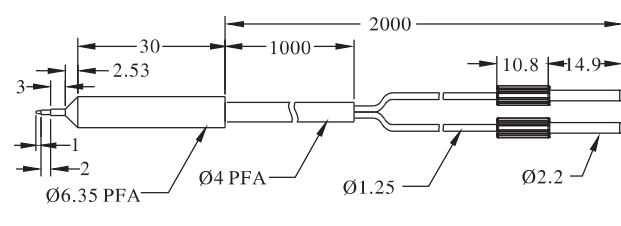
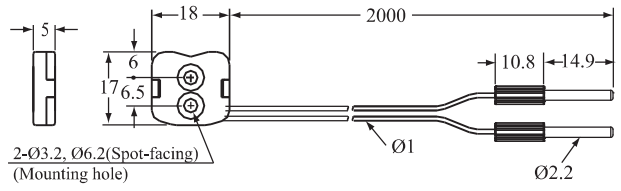
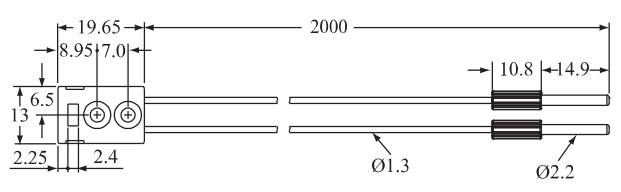
Acc.

Specifications / 規格表

Type	型號/ Model	尺寸/ Dimensions	規格/ Datasheet
Fiber Sensor PR /PT FR /FT Glass Fiber Light Guide Silica Fiber Acc.	FR-15MLD-20 Free cut Array Fiber Side view fiber		*Fiber Type : Multiple Core *Sensing distance(BR2/L999) : 40mm *Operate temperature : -55°C ~+70°C *Minimum bending radius : R5 *Fiber diameter : OD=Ø1.25 ID=Ø0.25x9/ Ø0.25x9
	FR-20ML-20 Free cut Array Fiber		*Fiber Type : Multiple Core *Sensing distance(BR2/L999) : 140mm *Operate temperature : -55°C ~+70°C *Minimum bending radius : R5 *Fiber diameter : OD=Ø2.2 ID=Ø0.265x16/ Ø0.265x16
	FR-20MLS-20 Free cut Array Fiber		*Fiber Type : Multiple Core *Sensing distance(BR2/L999) : 120mm *Operate temperature : -55°C ~+70°C *Minimum bending radius : R5 *Fiber diameter : OD=Ø2.2 ID=Ø0.265x16/ Ø0.265x16
	FR-30ML-20 Free cut Array Fiber Side view fiber		*Fiber Type : Multiple Core *Sensing distance(BR2/L999) : 140mm *Operate temperature : -55°C ~+70°C *Minimum bending radius : R5 *Fiber diameter : OD=Ø2.2 ID=Ø0.265x16/ Ø0.265x16
	FR-50ML-20 Free cut Array Fiber Side view fiber		*Fiber Type : Multiple Core *Sensing distance(BR2/L999) : 140mm *Operate temperature : -55°C ~+70°C *Minimum bending radius : R5 *Fiber diameter : OD=Ø2.2 ID=Ø0.265x16/ Ø0.265x16

 特殊型 (Other Type)
 反射型 (Reflective)

Specifications / 規格表

Type	型號/ Model	尺寸/ Dimensions	規格/ Datasheet
特殊型 (Other Type) 反射型 (Reflective)	FRY-20MLSD-20 Free cut Side view fiber 	 Ø1.0 fiber optic core x 2 3-M3 x 0.5 Ø2.2	*Fiber Type : Flexible *Sensing distance(BR2/L999) : 140mm *Operate temperature : -40℃~+70℃ *Minimum bending radius : R2 *Fiber diameter : OD=Ø2.2 ID=Ø1.0
	FRW-FU47-20 Free cut Side view fiber 	 Core Ø0.5x2 Ø2.1 x 2 Ø1.0 Ø4 Ø2.2	*Fiber Type : Flexible *Sensing distance(BR2/L999) : 1-16mm *Operate temperature : -40℃~+70℃ *Minimum bending radius : R1 *Fiber diameter : OD=Ø1.0 ID=Ø0.5
	FRD-FU901-20 Free cut 	 Ø1.25 Ø2.2	*Fiber Type : Precision *Operate temperature : -55℃~+70℃ *Minimum bending radius : R15 *Fiber diameter : OD=Ø1.25 ID=Ø0.5
	FRJ-9310-20 Free cut 	 Ø6.35 PFA Ø4 PFA Ø1.25 Ø2.2	*Material : Polyfluoroalkoxy (PFA) *Fiber Type : Precision *Operate temperature : -55℃~+70℃ *Minimum bending radius : R15/R40 *Fiber diameter : OD=Ø1.25 ID=Ø0.75
	FRW-K10-20 Free cut 	 2-Ø3.2, Ø6.2(Spot-facing) (Mounting hole) Ø1 Ø2.2	*Fiber Type : Flexible *Sensing distance(BR2/L999) : 5-10mm *Operate temperature : -40℃~+70℃ *Minimum bending radius : R1 *Fiber diameter : OD=Ø1.0 ID=Ø0.5
	FRB-38V-20 Free cut 	 Ø1.3 Ø2.2	*Fiber Type : Standard *Sensing distance(BR2/L999) : 1-6mm *Operate temperature : -55℃~+70℃ *Minimum bending radius : R25 *Fiber diameter : OD=Ø1.3 ID=Ø1.0

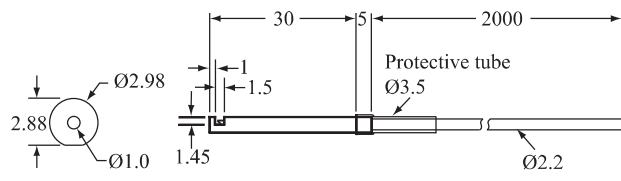
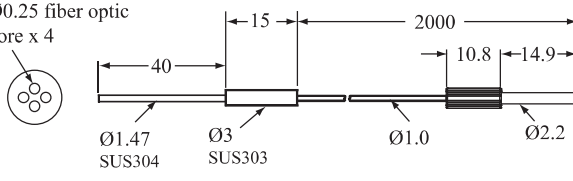
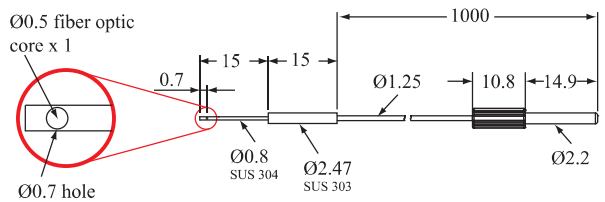
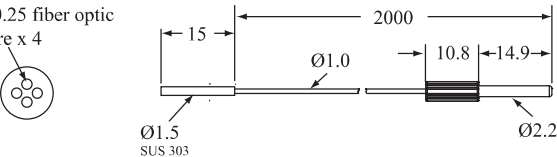
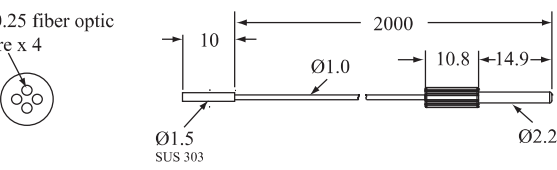
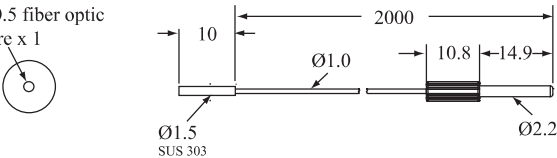
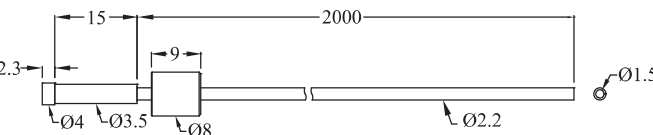
Specifications / 規格表

Type	型號/ Model	尺寸/ Dimensions	規格/ Datasheet
Fiber Sensor PR /PT FR /FT Glass Fiber Light Guide Silica Fiber Acc. 特殊型 (Other Type) 反射型 (Reflective) 透射型 (Transbeam)	特殊型 (Other Type) 反射型 (Reflective) FRW-11-20 Free cut		*Fiber Type : Flexible *Sensing distance(BR2/L999) : 40mm *Operate temperature : -40°C ~+70°C *Minimum bending radius : R1 *Fiber diameter : OD=Ø1.0 ID=Ø0.5
	M6 FT-620 Free cut		*Fiber Type : Standard *Sensing distance(BR2/L999) : 1000mm *Operate temperature : -55°C ~+70°C *Minimum bending radius : R25 *Fiber diameter : OD=Ø2.2 ID=Ø1.0
	Ø4 FTY-420-38G Free cut		*Fiber Type : Standard *Sensing distance(BR2/L999) : 1000mm *Operate temperature : -55°C ~+70°C *Minimum bending radius : R25 *Fiber diameter : OD=Ø2.2 ID=Ø1.0
	M3 FTB-320-T80 Free cut		*Fiber Type : Standard *Sensing distance(BR2/L999) : 800mm *Operate temperature : -55°C ~+70°C *Minimum bending radius : R25 *Fiber diameter : OD=Ø1.3 ID=Ø1.0
	Ø3 FT-320-T004 Free cut		*Fiber Type : Precision *Sensing distance(BR2/L999) : 1000mm *Operate temperature : -55°C ~+70°C *Minimum bending radius : R25 *Fiber diameter : OD=Ø2.2 ID=Ø1.0
	Ø3 FT-320-Q Free cut		*Fiber Type : Standard *Sensing distance(BR2/L999) : 1000mm *Operate temperature : -55°C ~+70°C *Minimum bending radius : R25 *Fiber diameter : OD=Ø2.2 ID=Ø1.0

※ : M6 : Toothed Lock Washer Ø11
 Width Across Flats 10mm, Thickness 2.5mm

※ : M3 : Toothed Lock Washer Ø6.4
 Width Across Flats 5mm, Thickness 2.2mm

Specifications / 規格表

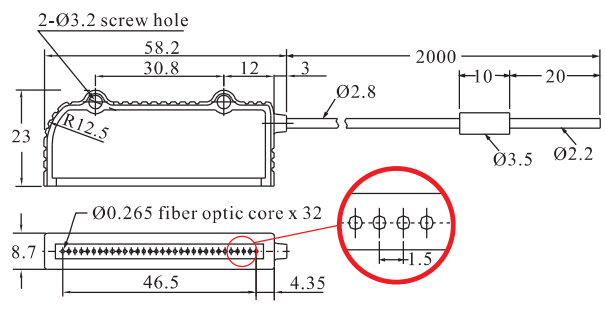
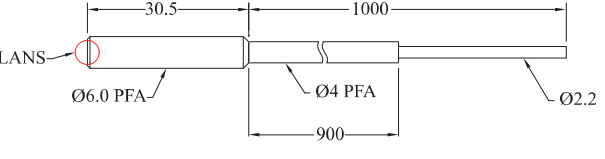
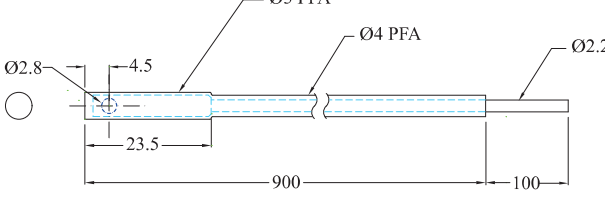
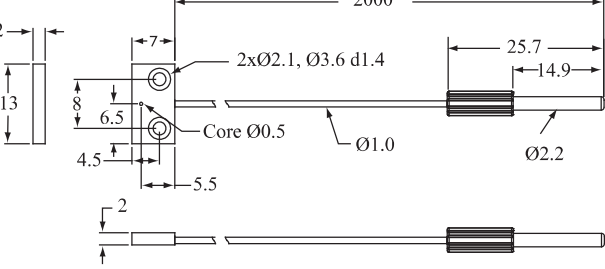
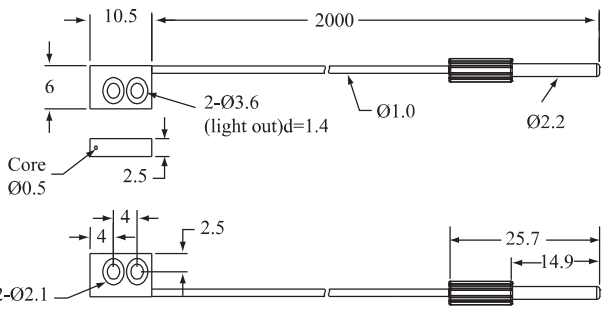
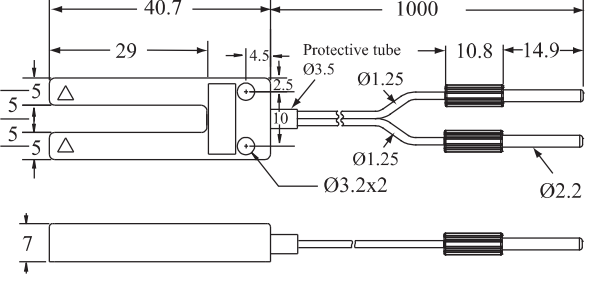
Type	型號/ Model	尺寸/ Dimensions	規格/ Datasheet
對照型 (Thru-beam)	FT-320-D-T14L Free cut Side view fiber 		*Fiber Type : Standard *Sensing distance(BR2/L999) : 800mm *Operate temperature : -55°C ~+70°C *Minimum bending radius : R25 *Fiber diameter : OD=Ø2.2 ID=Ø1.0
	FTC4-320-MQ Free cut 		*Fiber Type : Multiple Core *Sensing distance(BR2/L999) : 200mm *Operate temperature : -55°C ~+70°C *Minimum bending radius : R15 *Fiber diameter : OD=Ø1.0 ID=Ø0.25x4
	FTD-210-32 Free cut Side view fiber 		*Fiber Type : Precision *Sensing distance(BR2/L999) : 160mm *Operate temperature : -55°C ~+70°C *Minimum bending radius : R15 *Fiber diameter : OD=Ø1.25 ID=Ø0.5
	FTC4-120 Free cut 		*Fiber Type : Multiple Core *Sensing distance(BR2/L999) : 200mm *Operate temperature : -55°C ~+70°C *Minimum bending radius : R15 *Fiber diameter : OD=Ø1.0 ID=Ø0.25x4
	FTC4-120-59(H10) Free cut 		*Fiber Type : Multiple Core *Sensing distance(BR2/L999) : 200mm *Operate temperature : -55°C ~+70°C *Minimum bending radius : R15 *Fiber diameter : OD=Ø1.0 ID=Ø0.25x4
	FTS-120-H10 Free cut 		*Fiber Type : Precision *Sensing distance(BR2/L999) : 260mm *Operate temperature : -55°C ~+70°C *Minimum bending radius : R15 *Fiber diameter : OD=Ø1.0 ID=Ø0.5
特殊型 (Other Type)	FTX-20-U03 Free cut 		*Fiber Type : Long Sensing Distance *Operate temperature : -55°C ~+70°C *Minimum bending radius : R40 *Fiber diameter : OD=Ø2.2 ID=Ø1.5

Specifications / 規格表

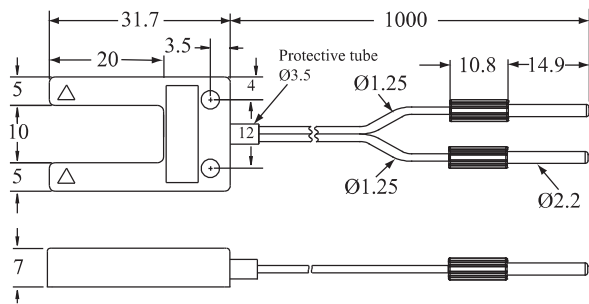
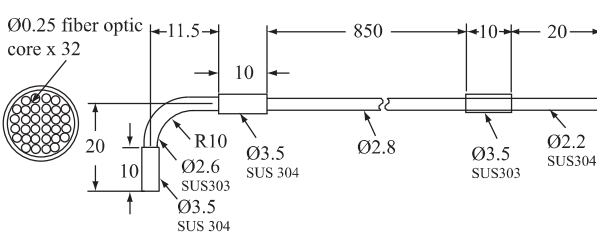
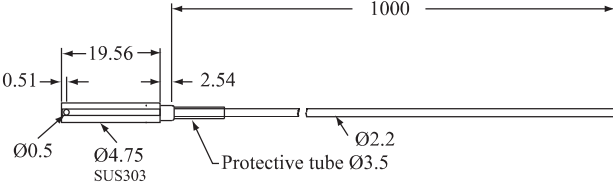
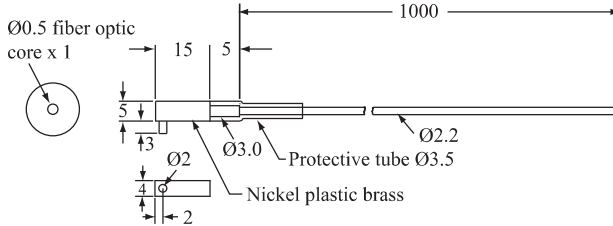
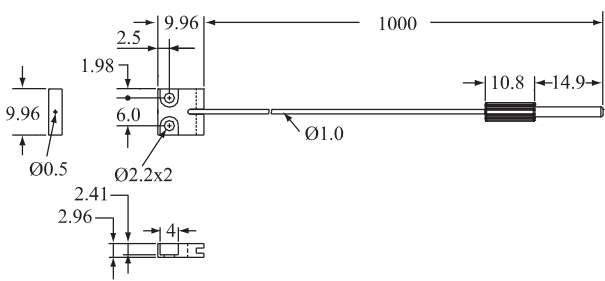
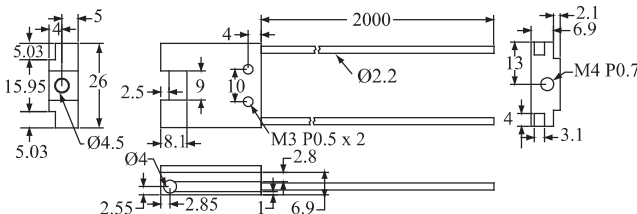
Type	型號/ Model	尺寸/ Dimensions	規格/ Datasheet
Fiber Sensor PR /PT FR /FT Glass Fiber Light Guide Silica Fiber Acc.	FTX-35D-20 Free cut Side view fiber		*Fiber Type : Long Sensing Distance *Sensing distance(BR2/L999) : 1000mm *Operate temperature : -55°C ~ +70°C *Minimum bending radius : R40 *Fiber diameter : OD=Ø2.2 ID=Ø1.5
	FT-10ML-10 Free cut		*Fiber Type : Multiple Core *Sensing distance(BR2/L999) : 1000mm *Operate temperature : -55°C ~ +70°C *Minimum bending radius : R5 *Fiber diameter : OD=Ø2.2 ID=Ø0.265x16
	FT-10MLD-20 Free cut Array Fiber Side view fiber		*Fiber Type : Multiple Core *Sensing distance(BR2/L999) : 300mm *Operate temperature : -55°C ~ +70°C *Minimum bending radius : R5 *Fiber diameter : OD=Ø2.2 ID=Ø0.265x16
	FT-15MLD-10 Free cut Array Fiber Side view fiber		*Fiber Type : Multiple Core *Sensing distance(BR2/L999) : 800mm *Operate temperature : -55°C ~ +70°C *Minimum bending radius : R5 *Fiber diameter : OD=Ø2.2 ID=Ø0.265x16
	FT-20ML-10 Array Fiber		*Fiber Type : Multiple Core *Sensing distance(BR2/L999) : 1000mm *Operate temperature : -55°C ~ +70°C *Minimum bending radius : R60 *Fiber diameter : OD=Ø2.8 ID=Ø0.265x32
	FT-30ML-20 Array Fiber Side view fiber		*Fiber Type : Multiple Core *Sensing distance(BR2/L999) : 600mm *Operate temperature : -55°C ~ +70°C *Minimum bending radius : R60 *Fiber diameter : OD=Ø2.8 ID=Ø0.265x32

特殊型 (Other Type)

Specifications / 規格表

Type	型號/ Model	尺寸/ Dimensions	規格/ Datasheet
特殊型 (Other Type) 對照型 (Thrubeam)	FT-50ML-20 Array Fiber Side view fiber 		*Fiber Type : Multiple Core *Sensing distance(BR2/L999) : 600mm *Operate temperature : -55°C ~+70°C *Minimum bending radius : R60 *Fiber diameter : OD=Ø2.8 ID=Ø0.265x32
	FT-9209-10L Free cut 		*Material : Polyfluoroalkoxy (PFA) *Fiber Type : Standard *Sensing distance(BR2/L999) : 200mm *Operate temperature : -55°C ~+70°C *Minimum bending radius : R60 *Fiber diameter : OD=Ø6 ID=Ø1
	FTX-9609-10 Free cut Side view fiber 		*Material : Polyfluoroalkoxy (PFA) *Fiber Type : Long Sensing Distance *Sensing distance(BR2/L999) : 200mm *Operate temperature : -55°C ~+70°C *Minimum bending radius : R60 *Fiber diameter : OD=Ø5 ID=Ø1.5
	FTW-FU53-20 Free cut Side view fiber 		*Fiber Type : Flexible *Sensing distance(BR2/L999) : 80mm *Operate temperature : -40°C ~+70°C *Minimum bending radius : R1 *Fiber diameter : OD=Ø1.0 ID=Ø0.5
	FTW-FU57-20 Free cut Side view fiber 		*Fiber Type : Flexible *Sensing distance(BR2/L999) : 90mm *Operate temperature : -40°C ~+70°C *Minimum bending radius : R1 *Fiber diameter : OD=Ø1.0 ID=Ø0.5
	FTA-SU05-10 Free cut 		*Fiber Type : High Precision *Sensing distance(BR2/L999) : 5mm *Operate temperature : -55°C ~+70°C *Minimum bending radius : R10 *Fiber diameter : OD=Ø1.25 ID=Ø0.25

Specifications / 規格表

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Fiber Sensor PR /PT FR /FT Glass Fiber Light Guide Silica Fiber Acc.	FTA-SU10-10 Free cut 		*Fiber Type : High Precision *Sensing distance(BR2/L999) : 10mm *Operate temperature : -55°C ~+70°C *Minimum bending radius : R5 *Fiber diameter : OD=Ø1.25 ID=Ø0.25
	FTC32-12 		*Fiber Type : Coaxial *Sensing distance(BR2/L999) : 1500mm *Operate temperature : -55°C ~+70°C *Minimum bending radius : R60 *Fiber diameter : OD=Ø2.8 ID=Ø0.25x32
	FTW2-475D-10 Free cut Side view fiber 		*Fiber Type : Flexible *Sensing distance(BR2/L999) : 160mm *Operate temperature : -55°C ~+70°C *Minimum bending radius : R1 *Fiber diameter : OD=Ø2.2 ID=Ø0.5
	FTW2-11-10 Free cut 		*Fiber Type : Flexible *Sensing distance(BR2/L999) : 160mm *Operate temperature : -40°C ~+70°C *Minimum bending radius : R1 *Fiber diameter : OD=Ø2.2 ID=Ø0.5
	FTW-10ML-10 Free cut 		*Fiber Type : Flexible *Sensing distance(BR2/L999) : 160mm *Operate temperature : -40°C ~+70°C *Minimum bending radius : R1 *Fiber diameter : OD=Ø1.0 ID=Ø0.5
	FTY-U09-20 Free cut 		*Fiber Type : Flexible *Sensing distance(BR2/L999) : 9mm *Operate temperature : -40°C ~+70°C *Minimum bending radius : R2 *Fiber diameter : OD=Ø2.2 ID=Ø1.0

 特殊型 (Other Type)
 特照型 (Thru beam)

Specifications / 規格表

Type	型號/ Model	尺寸/ Dimensions	規格/ Datasheet
反射型 (Reflective)	FRC-305-21X		*Fiber Type : Ultra Precision *Sensing distance(BR2/L999) : 25mm *Operate temperature : -55℃~+70℃ *Minimum bending radius : R5 *Fiber diameter : OD=Ø1.25 ID=Ø0.25x1/ Ø0.125x10
	FRN7-305		*Fiber Type : Ultra Precision *Sensing distance(BR2/L999) : 15mm *Operate temperature : -55℃~+70℃ *Minimum bending radius : R5 *Fiber diameter : OD=Ø1.25 ID=Ø0.125x7
	FRN4-110-S3 Free cut		*Fiber Type : Ultra Precision *Sensing distance(BR2/L999) : 10mm *Operate temperature : -55℃~+70℃ *Minimum bending radius : R5 *Fiber diameter : OD=Ø1.25 ID=Ø0.125x4
	FTN-305-S5Q		*Fiber Type : Ultra Precision *Sensing distance(BR2/L999) : 15mm *Operate temperature : -55℃~+70℃ *Minimum bending radius : R5 *Fiber diameter : OD=Ø2.2 ID=Ø0.125
	FTN-310-S51Q		*Fiber Type : Ultra Precision *Sensing distance(BR2/L999) : 15mm *Operate temperature : -55℃~+70℃ *Minimum bending radius : R5 *Fiber diameter : OD=Ø2.2 ID=Ø0.125
	FTN-205-S5		*Fiber Type : Ultra Precision *Sensing distance(BR2/L999) : 15mm *Operate temperature : -55℃~+70℃ *Minimum bending radius : R5 *Fiber diameter : OD=Ø1.5 ID=Ø0.125
	FTN-210-H10		*Fiber Type : Ultra Precision *Sensing distance(BR2/L999) : 15mm *Operate temperature : -55℃~+70℃ *Minimum bending radius : R5 *Fiber diameter : OD=Ø1.5 ID=Ø0.125
精密型 (Ultra-Precision Type)			
對照型 (Thrubeam)			

※ : M3 : Toothed Lock Washer Ø6.4
Width Across Flats 5mm, Thickness 2.2mm

Specifications / 規格表

Type	型號/ Model	尺寸/ Dimensions	規格/ Datasheet
Fiber Sensor PR /PT FR /FT Glass Fiber Light Guide Silica Fiber Acc. 反射型 (Reflective) 耐熱型 (Heat-Resistant Type) 對照型 (Thrubeam)	FRH-620 Free cut		*Fiber Type : Heat Resistant *Sensing distance(BR2/L999) : 160mm *Operate temperature : -55°C~+105°C *Minimum bending radius : R25 *Fiber diameter : OD=Ø2.2 ID=Ø1.0
	FRH-520 Free cut		*Fiber Type : Heat Resistant *Sensing distance(BR2/L999) : 150mm *Operate temperature : -55°C~+105°C *Minimum bending radius : R25 *Fiber diameter : OD=Ø2.2 ID=Ø1.0
	FRH-38H-20 Free cut		*Fiber Type : Heat Resistant *Sensing distance(BR2/L999) : 5-18mm *Operate temperature : -55°C~+105°C *Minimum bending radius : R25 *Fiber diameter : OD=Ø2.2 ID=Ø1.0
	FTH-420-F1 Free cut		*Fiber Type : Heat Resistant *Sensing distance(BR2/L999) : 1200mm *Operate temperature : -55°C~+105°C *Minimum bending radius : R25 *Fiber diameter : OD=Ø2.2 ID=Ø1.0
	FTH-320 Free cut		*Fiber Type : Heat Resistant *Sensing distance(BR2/L999) : 800mm *Operate temperature : -55°C~+105°C *Minimum bending radius : R25 *Fiber diameter : OD=Ø2.2 ID=Ø1.0
	FTH-320-D Free cut Side view fiber		*Fiber Type : Heat Resistant *Sensing distance(BR2/L999) : 800mm *Operate temperature : -55°C~+105°C *Minimum bending radius : R25 *Fiber diameter : OD=Ø2.2 ID=Ø1.0

※ : M6 : Toothed Lock Washer Ø11
Width Across Flats 10mm, Thickness 2.5mm

※ : M4 : Toothed Lock Washer Ø8.3
Width Across Flats 8mm, Thickness 2.3mm

※ : M3 : Toothed Lock Washer Ø6.4
Width Across Flats 5mm, Thickness 2.2mm