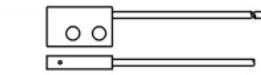
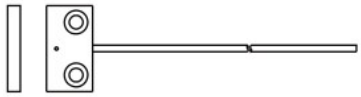
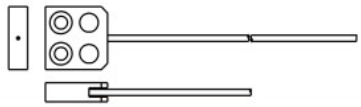
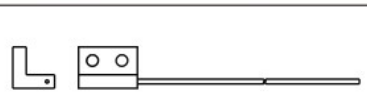
▣ Specifications (through-beam type)

(based on Non-glossy white paper)

Type	Appearance	Feature	Model	Sensing distance (mm)	Min. sensing target※3	Allowable bend radius	Cable length(L)※4	Temp.
Flexible type※5	Line-up 	Flat type /Top view	FTFU-210-05R	110※1	Ø0.04	R1	1m Free cut	-40 to 60℃
	Line-up 	Flat type /Side view	FTFN-210-05R					
	Line-up 	Flat type /Flat view	FTF-210-05R	100※1				
	Line-up 	Flat type /Top+Side view	FTFB-210-05R	110※1				
	Line-up 	Integrated bracket(L type) /Top view	FTLU-310-10R	500※1	Ø0.06			
			FTLU1-310-10R					
			FTLU2-310-10R					
	Line-up 	M3 Bolt	FT-320-05R	110※1	Ø0.3		2m Free cut	
	Line-up 	Ø2 Cylinder type	FTC-220-05R					
	Line-up 	M4 Bolt	FT-420-10R	500※1	Ø0.5			
Flexible type※5	Line-up 	M3 Bolt	FT-320-06B	110※2	Ø0.3	R5		
	Line-up 	Ø1.5 Cylinder type	FTC-1520-06B					
	Line-up 	M4 Bolt	FT-420-13B	400※2	Ø0.6			

※1: The sensing distance is a standard for BF5 Series.
※2: The sensing distance is a standard for red LED of BF4 Series and 10% of red LED is applied when it is green LED. It is applied to 40% of sensing distance for BF3RX.
※3: Min. sensing target is a value measured opaque material in accurate output status and the sensing distance is different with the rated sensing distance ※2.
※4: Fiber optic cable out of the rated length can be customizable.
※5: • **Flexible optical fiber (Multi core) :** A large number of ultra-fine cores are all surrounded by cladding. Easy to install the many places where are bending areas because the change of the intensity of radiation by bending is small.
• **Break-resistant optical fiber :** The fiber units contain a large number of independent fine fibers, ensuring a high degree of flexibility. It can be used for moving parts(robot hand) and it is not easily broken.
※Free cut The sensing distance can be shortened about max. 20% than the normal according to condition of the cable. [(FC-2) should be used for cutting fiber cable.]
※FT-420-13 was discontinued. FT-420-13B is replacement.