



## NEW METAL-FREE FIBER

# METAL-FREE

### Metallic particulate production ratio: ZERO

The resin unit does not produce metallic particulate even when rubbed with metal. It is perfect for applications in which you wish to avoid metal mixing such as secondary cell production processes.

### Effect on magnetic fields: ZERO

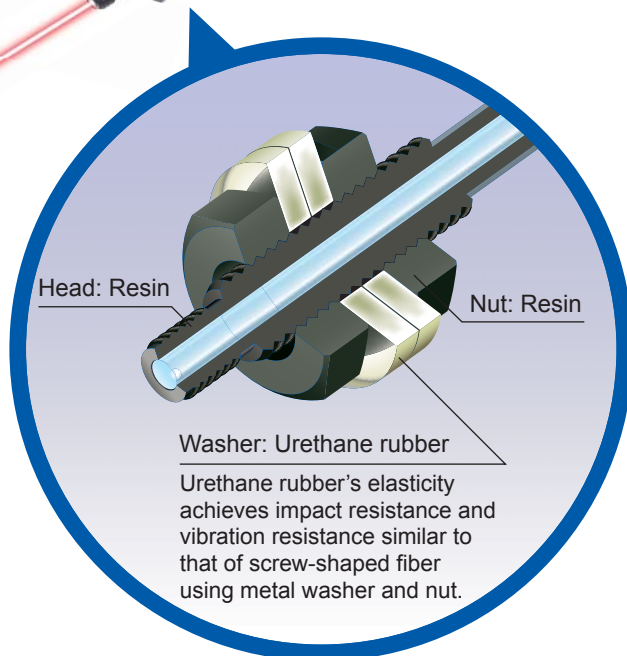
As a resin product it does not affect sensors that use magnetic fields. Also, it does not magnetize even when in a magnetic field.

**FT-41**  
Thru-beam·  
M4 type

**FD-G40**  
Coaxial reflective·  
M4 type

**FD-G60**  
Coaxial reflective·  
M6 type

Thru-beam type **FT-41**  
Coaxial reflective type **FD-G60**  
Coaxial reflective type **FD-G40**



### Attention given to metal-free fiber

#### Filtered and neutralized fiber

To reduce risk of metallic particulate affixing, when coating we use our Ionizer Cleaning Box **EC-B01-EX** to implement static electricity removal and air blowing.



#### Attention given to the packaging

We do not use twist ties that contain wires but wrap the fiber unit by itself in a plastic bag. Metal products including fiber cutters are shipped in separate packaging.



## SPECIFICATIONS

Type		Thru-beam	Coaxial reflective	
Item	Model No.	FT-41	FD-G60	FD-G40
Applicable amplifiers		FX-500/100/300/400 series		
Sensing range (Note)	HYP R	3,300 mm 129.921 in	1,000 mm 39.370 in	550 mm 21.654 in
	U-LG	2,000 mm 78.740 in	680 mm 26.772 in	330 mm 12.992 in
	LONG	1,550 mm 61.024 in	600 mm 23.622 in	270 mm 10.630 in
	STD	1,100 mm 43.307 in	420 mm 16.535 in	140 mm 5.512 in
	FAST	445 mm 17.520 in	200 mm 7.874 in	80 mm 3.150 in
	H-SP	150 mm 5.906 in	60 mm 2.362 in	27 mm 1.063 in
Allowable bending radius		R25 mm R0.984 in or more		
Tightening torque		0.15 N·m or less	0.5 N·m or less	0.15 N·m or less
Ambient temperature		-40 to +70 °C -40 to +158 °F (No dew condensation or icing allowed) Storage: -40 to +70 °C -40 to +158 °F		
Ambient humidity		35 to 85 % RH / Storage: 35 to 85 % RH		
Vibration resistance		10 to 500 Hz frequency, 3 mm 0.118 in amplitude in X, Y and Z directions for two hours each		
Shock resistance		490 m/s <sup>2</sup> acceleration in X, Y and Z directions for three times each		
Material	Fiber core	Acrylic		
	Sheath	Polyethylene		
	Fiber head	PPS		
	Nut	Polyamide resin		
	Flat washer	Urethane rubber		
Accessories		FX-AT3 (Fiber attachment) 1pc.		FX-AT6 (Fiber attachment) 1pc.
		FX-CT2 (Fiber cutter) 1pc.		
		Nuts and flat washers 4 pcs. each	Nuts and flat washers 2 pcs. each	

Note: The sensing range are the values for FX-500 series.

## OPTIONS

Designation	Model No.	Description
Resin nut set	FX-M6N	Resin M6 nuts and flat washers: for 10 heads
	FX-M4N	Resin M4 nuts and flat washers: for 10 heads

## PRECAUTIONS FOR PROPER USE



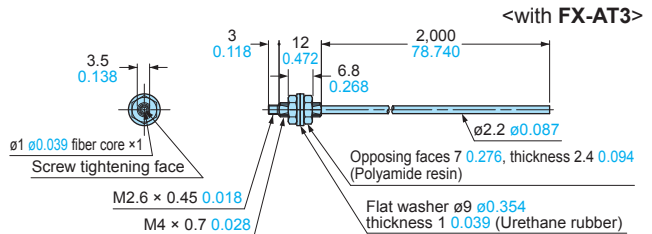
- Never use this product as a sensing device for personnel protection.
- In case of using sensing devices for personnel protection, use products which meet laws and standards, such as OSHA, ANSI or IEC etc., for personnel protection applicable in each region or country.

- Our products are developed and manufactured for use in industrial environments.

## DIMENSIONS (Unit: mm in)

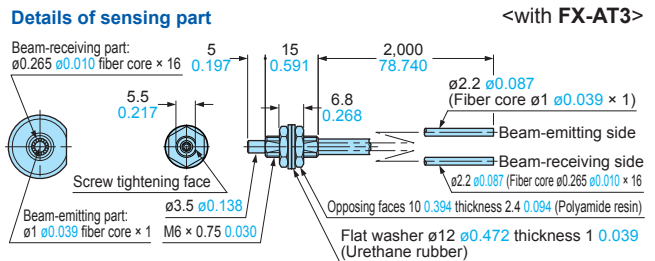
### FT-41

Free-cut



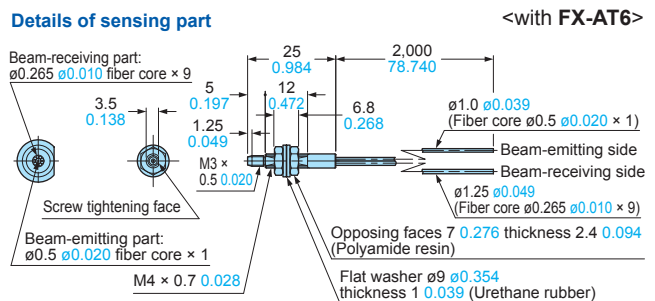
### FD-G60

Free-cut



### FD-G40

Free-cut



## OTHER RESIN FIBER PRODUCTS For details refer to the SUNX website or general catalog.

Wide beam fiber  
FT-WA□/A□

\* This product contains an internal metallic sleeve.



Convergent reflective fiber

FD-L4□  
FD-WL48

\* Except some models.



All information is subject to change without prior notice.



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