

NEW SPACE-SAVING FIBER LINE-UP

FT-WR80(L) FT/FD-WZ (HB)

Space Saving Fibers

Offering New Advancements in Fiber Integration



Streamlined Fiber Heads! Introducing our new easy to mount fibers.

Our new square head fibers are streamlined so that they take up less installation space. A long sensing range of 1500 mm 59.055 in makes them ideal for use on conveyor systems.



Streamlined fibers FT-WR80, FT-WR80L

Compact Installation

The mounting space required is at a minimum, and the fiber position helps reduce the possibility of the cable snagging on tools and equipment. Also a sharp bending radius of R1 mm R 0.039 in allows easier wiring arrangement.



Long sensing range type available FT-WR80L We also offer a long sensing range type with lenses. No additional lenses are

required, and no extra space is consumed.



FX-411: 2,100 mm 82.677 in when U-LG mode.

Head shape simplifies installation

Fiber head is square shaped to prevent damage during mounting.



In addition to fiber sensors, the line-up also includes amplifier built-in type photoelectric sensors which allow streamlined installation.



SUNX

A new standard in space-saving fibers. Flat fiber heads with a thickness of only 2 mm 0.079 in

We have a comprehensive range of thin and flat-type fibers that offer a high level of integration. This contributes to the miniaturization of equipment.



Flat type FT-WZ4 (HB), FD-WZ4 (HB), FT-WZ7 (HB), FD-WZ7 (HB)

Mounting with M2 or M3 screw



We offer; FT-WZ4(HB), FD-WZ4(HB), 1 point mounting with M2 screw and

FT-WZ7(HB), FD-WZ7(HB), 1 point mounting with M3 screw.

The built-in fiber guide allows for multiple installation angles.

FT/FD-WZHB is equipped with a fiber guide feature. Front sensing and side sensing can be selected with one head.





Compact • long sensing range thru-beam type FT-Z8, FT-WZ8 series

 $\label{eq:compact size of only W3 \times H8 \times D12 \ \text{mm} \ W0.118 \times H0.315 \times D0.472 \ \text{in}, \ \text{yet has a very long maximum sensing range of 3,500 \ \text{mm}} \\ 137.795 \ \text{in}. \ \text{Flexible types (FT-Z8) and sharp-bending types (FT-WZ8) with a bending radius of 1 \ \text{mm} \ 0.039 \ \text{in} \ \text{are available}. \\ \end{array}$





SPACE-SAVING FIBER SENSOR LINE-UP

Notes: 1) Please take care that the sensing range of the free-cut type fiber may be reduced by 20 % max. depending upon how the fiber is cut. 2) The sensing range is the value for the **FX-301/305/311** (infrared type). Contact our office for details on the sensing ranges for other types of amplifier.

The FX-301 is not equipped with STDF / U-LG modes. The FX-305 is not equipped with an S-D mode. The FX-311 is not equipped with U-LG / STDF / FAST / H-SP modes.

SPECIFICATIONS

\mathbb{N}	Туре	Thru-beam • rectangular type			Thru-beam • threaded type Reflective • rectangular type		
		Compact type			Square head type	Convergent reflective type	Compact type
Item	Model No.	FT-WZ_(HB)	FT-Z8	FT-WZ8	FT-WR80(L)	FD-WL48	FD-WZ[(HB)
Applicable amplifiers		FX-100/300/410 series					
Ambient temperature		-40 to +60 °C -40 to +140 °F (FD-WL48 : -20 to +60 °C -4 to +140 °F)					
Ambient humidity		35 to 85 % RH (No dew condensation or icing allowed)					
Material	Fiber core	Acrylic					
	Sheath	Polyethylene (FT-Z8 : Vinyl chloride)					
	Fiber head	Enclosure: Polycarbonate Sleeve of FT-WZ (HB): stainless steel (SUS304) Lens of FT-WZ8H/WZ8E, Reflector of FT-WZ8E and Prism of FT-WZ4/WZ7: Acrylic Lens of FT-Z8H/Z8E and front film of FT-Z8: Polyester			Enclosure: Die-cast zinc (nickel plated) Lens of FT-WR80L : Acrylic	Enclosure: Polycarbonate Sleeve of FD-WZ (HB): stainless steel (SUS304) Prism of FD-WZ4/WZ7 : Acrylic Prism of FD-WL48 : polycarbonate	
Accessories		1 fiber attachment set, FX-CT2 (fiber cutter) 1 pc., 1 set of mounting screw (except for FT-WZ7)			1 fiber attachment set, FX-CT2 (fiber cutter) 1 pc., nuts 2 pcs., toothed lock washer 2 pcs.	1 fiber attachment set, FX-CT2 (fiber cutter) 1 pc., 1 set of mounting screw (FT-WZ4 only)	

Note: Where measurement conditions have not been specified precisely, the conditions used were ambient temperature +23 °C +73.4 °F.

DIMENSIONS (Unit: mm in)

Refer to our website for dimensions which are not shown below. The CAD data in the dimensions can be downloaded from the website: http://www.sunx.jp/





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SUNX Fiber Optic Amplifiers

SUNX offers fiber sensor amplifiers which are easy to use that have high sensing performance are available. Refer to the SUNX product catalogs for details on the models below.



All information is subject to change without prior notice.



http://www.sunx.jp/

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