imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

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NEW For Wafer Mapping Narrow Beam Fibers

High throughput now possible with 105 °C 221 °F heat-resistant fiber!

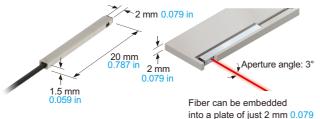


Using the **FT-KV26H1**, 105 °C 221 °F heat-resistant fiber can reduce the wafer cooling time compared with the previous model, 60 °C 140 °F heat-resistant fiber, and enables wafer conveyance in a high-temperature state, so it contributes to improve throughput.

Ultra-compact size

FT-KV26H1 FT-KV26

Thanks to its ultra-compact size of just W2 × H1.5 × D20 mm W0.079 × H0.059 × D0.787 in, the **FT-KV26H1** and **FT-KV26** can be installed even in limited spaces such as robot hands.



Ultra-narrow beam aperture angle 2° or less

Realized laser-like aperture angle of 2°. Use of the exclusive mounting bracket enables easy mounting without the need for grooving. The **FT-KV40** and **FT-KV40W** are optimal for mounting on device-side mapping mechanism.



FT-KV40 FT-KV40W

FT-KV40W

in thickness.

Ultra-thin retroreflective type reduces construction work

FR-KZ22E

The **FR-KZ22E** is a ultra-thin shape (fiber: 2 mm thick, reflector: 2.2 mm thick), it can be installed even on thin robot hands. Using the **FR-KZ22E** reduces wiring and robot hand processing, and secures strength because of the retroreflective type.



Increased heat resistance up to 80 C FT-KS40 FT-KV40 FT-KV26

The **FT-KS40**, **FT-KV40** and **FT-KV26** have been redesigned to increase their heat resistance from 60 °C 140 °F up to 80 °C 176 °F, improved its environmental durability.

Note: The FT-KS40, FT-KV40 and FT-KV26 produced until September 2014 are heat-resistant 60 °C 140 °F.

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(bending radius: R10 mm R0.394 in, reciprocating bending: 180°) and more flexible (bending radius: R4 mm R0.157 in or less) features.
(bending durability): Refers to a fiber which possesses unbreakable bending resistant feature (bending radius: R10 mm R0.394 in, reciprocating bending: 180°).

*The FT-KS40, FT-KV40 and FT-KV26 have been changed in specifications from production in October 2014.

Thru-beam type (one pair set)

The specifications shown here reflect those changes.												
	уре			Bending radius (mm)	Fiber cable length ऑ: Free-cut	Sensing range (mm in) (Note 1)				Beam axis		
Ту		Shape of fiber head (mm)				FX-500 series	U-LG LONG FAST H-SP	FX-101 (Upper value) FX-102 (Lower value)	axis dia. (mm)	nonition/	Protection	Ambient temp.
Narrow beam		Aperture angle 2° Ø3.5 Ø3.7 → 20 ←	NEW Tough *FT-KS40 Bending durability	R2		STD ((Nötē)2)) 3,600 141.732 HYPR (Nötē)2)) 3,600 141.732	3,600 141.732(Note 2) 3,600 141.732(Note 2) 3,600 141.732(Note 2) 1,200 47.244	2,200 86.614 3,600 141.732 (Note 2)	ø2.2	_	IP40	_40 to
		Aperture angle 2° Ø4	NEW Tough *FT-KV40 Bending durability			STD ((Nötē)2)) 3,600 141.732 HYPR (Nötē)2) 3,600 141.732	3,600 141.732(Note 2) 3,600 141.732(Note 2) 3,600 141.732(Note 2) 1,200 47.244	2,200 86.614 3,600 141.732 (Note 2)		±0.8°	- IP30	+80 °C
	Side-view	Aperture angle $2^{\circ} \not = 04$	FT-KV40W	R1	<mark>≫</mark> 2 m	STD ((Nöte)2)) 3,600 141.732 HYPR (Nöte)2) 3,600 141.732	3,600 141.732(Note 2) 3,600 141.732(Note 2) 3,100 122.047 940 37.008					-40 to +60 °C
		Aperture angle 3° 1.5 × 2	NEW Tough *FT-KV26 Bending durability	R2		STD 710 27.953 HYPR \$2,500 98.425	1,600 62.992 1,200 47.244 440 17.323 160 6.299	135 5.315 560 22.047	ø1	X±1° Z±0.5°		-40 to +80 °C
		Aperture angle 3° 1.5 × 2	NEW FT-KV26H1	R10		STD 630 24.803 HYPR () 2,200 86.614	1,430 56.299 1,070 42.126 390 15.354 135 5.315	160 6.299 500 19.685)			-40 to +105 °C

Retroreflective type

	Shape of fiber head (mm)	Model No.	Bending radius	Fiber cable length <u>≫</u> : Free-cut	Sensing range (mm in) (Note 1, 3)				
Туре					FX-500 series	U-LG LONG FAST H-SP	FX-101 (Upper value) FX-102 (Lower value)	Protection	Ambient temp.
Wafer mapping	W7.5 × H2.2 × D11.2	Tough FR-KZ22E Bending durability	R2	<mark>≫</mark> 2 m	STD 15 to 310 0.591 to 12.205 HYPR 15 to 570 0.591 to 22.441	15 to 460 0.591 to 18.110 15 to 410 0.591 to 16.142 15 to 220 0.591 to 8.661 15 to 100 0.591 to 3.937	0.591 to 7.874 15 to 360	IP30	-40 to +60 °C

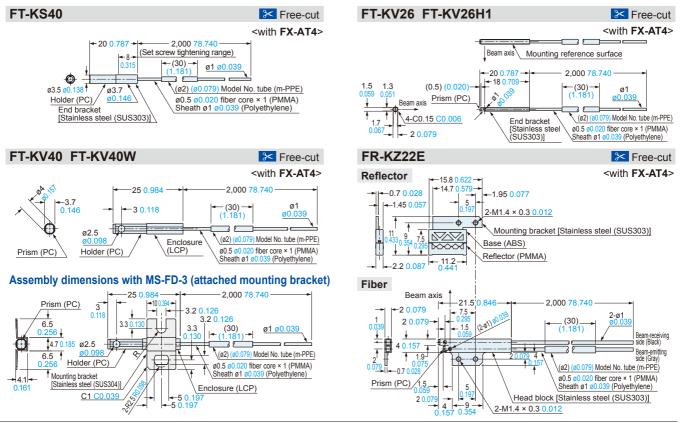
Notes: 1) Note that the sensing range of the free-cut type fiber may be reduced by 20 % max. depending upon how the fiber is cut.

2) The fiber cable length practically limits the sensing range.

3) The sensing range is the possible setting range for the attached reflector. The fiber can detect an object less than setting range for the reflector.

DIMENSIONS (Unit: mm in)

Refer to our website, fiber sensor guide book or general catalog for the amplifiers. The CAD data with the dimensions listed can be downloaded from our website.



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