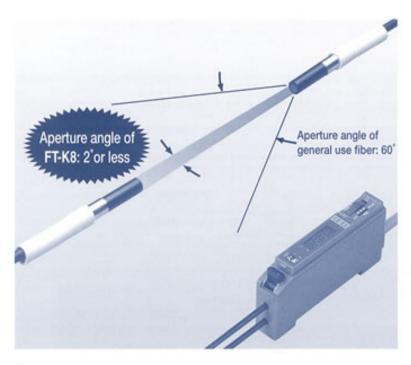




700mm long sensing range with 2° or less aperture angle!



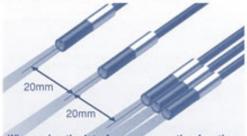
2m Free-cut

Since the fiber cable is 2m freecut type, it can be cut to suit your equipment.



Ultra-narrow Beam-Aperture Angle of 2° or Less

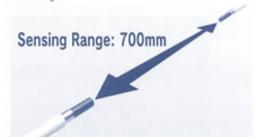
It has an aperture angle of 2'or less (1/2 of the conventional models), so that, in comparison with the conventional models, it hardly receives any extraneous light from the surroundings. Even if the fibers are mounted at an interval of 20mm, since there is hardly any mutual interference, reliable sensing is possible. Moreover, up to three sensors can be mounted next to each other if the interference prevention function of the amplifier FX-D1/A1/M1 series is used.



When using the interference prevention function, three sensors can be mounted closely.

Long Sensing Range: 700mm

Since its sensing range is 700mm, it can be set with sufficient margin.



Application

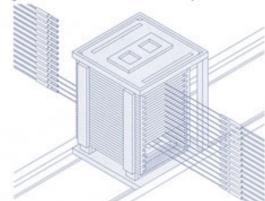
Detecting overlap of ceramic sheets

Since the aperture angle is 2 or less, the beam spread is small and there is hardly any effect of surroundings. Hence, detecting overlap of thin ceramic sheets is possible.



Detecting presence /absence of glass sheets

Even when the fibers are arranged in a row, since there is very little mutual interference or influence of surroundings, presence/absence of glass sheets inside the rack can be reliably detected.



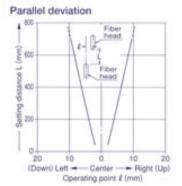


SPECIFICATIONS

Туре		Narrow beam
		Top sensing
Item Model No.		FT-K8
Applicable amplifiers		Red LED type of FX-D1, FX-A1 and FX-M1 series
Sensing range		700mm
Min. sensing object		
Repeatability		Perpendicular to sensing axis: 0.05mm or less
Aperture angle		2" or less
Allowable bending radius		R25mm or more
Fiber cable length		2m free-cut
Ambient temperature		-40 to +60°C (No dew condensation or icing allowed). Storage: -40 to +60°C
Ambient humidity		35 to 85% RH, Storage: 35 to 85% RH
Material	Fiber core	Acrylic
	Sheath	Polyethylene
	Fiber head	Stainless steel(SUS303)(Holder: Polycarbonate, Lens: Norbornene resin)
Material		60g approx.
Accessory		FX-CT1 (Fiber cutter): 1 No.

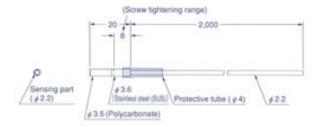
Note: Please refer to the sensor general catalog or the FX series catalog for further details of the applicable amplifiers

SENSING CHARACTERISTICS (TYPICAL)



DIMENSIONS (Unit: mm)





Digital setting fiber sensor

Innovative feature! Simple operation with jog switch!! Just three basic operations







Just press the jog switch A fine increase of thresh-for setting.

A fine increase of thresh-old value is possible old value is possible simply by turning the jog

Clearly visible digital display!

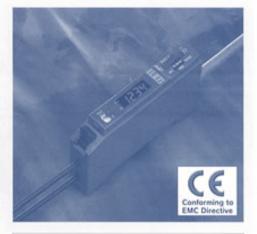
Since the display has a backlight, the values can be read even in a dark place.

Numerical control of threshold and incident light levels!

Since the threshold level and the incident light level can be numerically displayed, these levels can be numerically specified and checked during assembly line setup or maintenance.

Further, the margin available for sensing can be known at a glance by

changing to percentage display.



MAIN SPECIFICATIONS

- Supply voltage: 12 to 24V DC±10%
 Current consumption: 45mA or less
- · Output (Output 1, Output 2): NPN open-collector transistor
 - or PNP open-collector transistor
- · Ambient temperature: 0 to +50°C
- · Weight: 70g approx.

