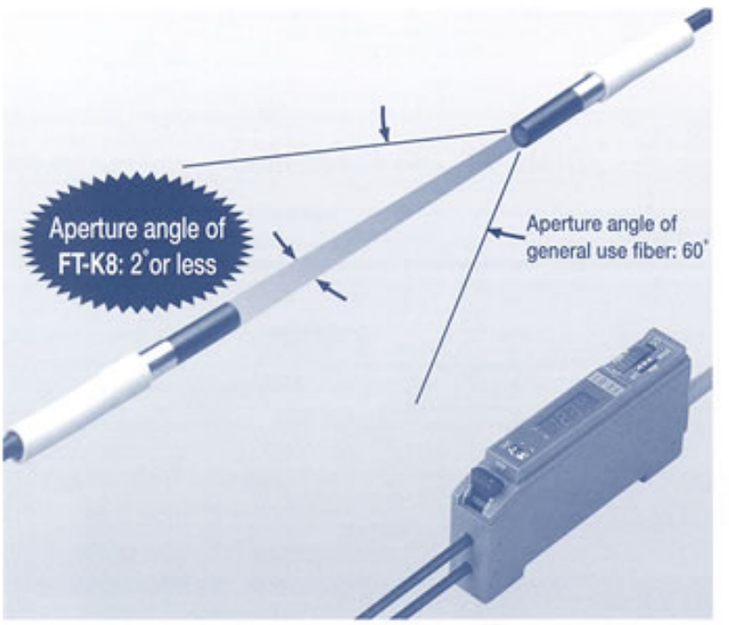
SUNX

New NARROW BEAM TYPE FIBER Top sensing type

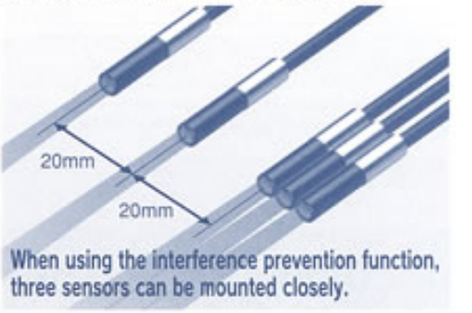
FT-K8

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



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.

2m Free-cut

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

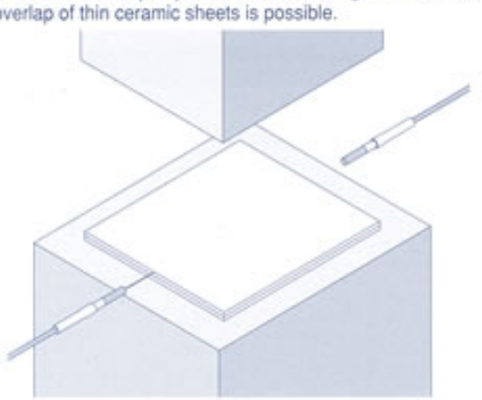
Long Sensing Range: 700mm

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

Application

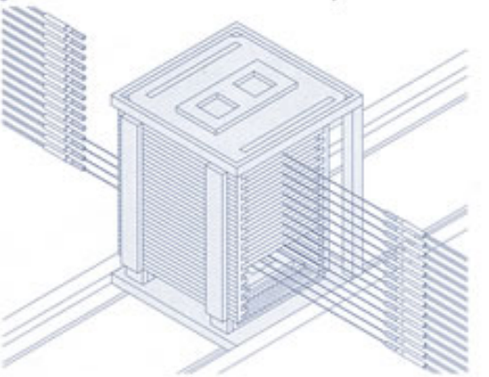
●Detecting overlap of ceramic sheets

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.



FT-K8

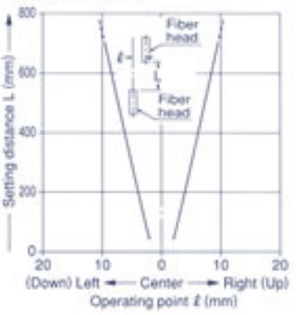
SPECIFICATIONS

Item \ Type		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		ϕ0.3mm opaque object (at the optimum sensitivity)
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.

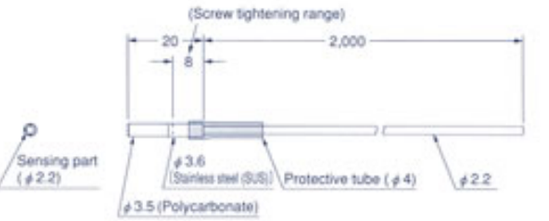
SENSING CHARACTERISTICS (TYPICAL)

Parallel deviation



DIMENSIONS (Unit: mm)

Free-cut

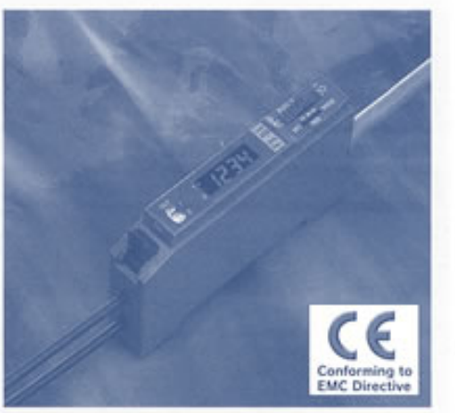


Digital setting fiber sensor FX-D1 series

Innovative feature! Simple operation with jog switch!!

Just three basic operations

Press	Turn to '+' side	Turn to '−' side
		
Just press the jog switch for setting.	A fine increase of threshold value is possible simply by turning the jog switch.	A fine decrease of threshold value is possible simply by turning the jog switch.



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.

Pioneer in Sensor Systems
SUNX