



CU-IRFK
June 12, 2019



IR Fiber Optic With 3' or 5' Fiber Bundle Used With 48PT2- 100X Infrared Scanner

APPLICATION

The FIREYE fiber optic bundle has been designed for installation on burners where diffusers, sight pipe alignment, or burner apparatus would obscure the target flame away from the line of sight of a conventional surface mounted scanner. In burner boiler applications, where it is undesirable to mount the scanner in the blast tube, the 48PT2-100X scanner can be extended external to the burner. To avoid mechanical damage, care must be used during the handling of the fiber optic bundle and during assembly installation.

DO handle the fiber optic bundle gently.

DO NOT drop the fiber optic bundle.

DO NOT force a bend radius smaller than 4" or start a bend radius closer than 2" from either end.

SPECIFICATIONS

FIBER OPTIC BUNDLE:

1/2" NPT mounting lens holder head: 303 Stainless steel.

Fiber outer carrier flexible stainless steel

Rear portions: rigid stainless steel 1/2 in. (Scanner Connection)

Optics: High temperature glass.

DIMENSIONS:

See Figure 1.

MOUNTING:

Burner Throat: 1/2" NPT lens holder assembly. Figure 1

Scanner assembly: 1/2" NPT fiber/scanner assembly. Figure 1

ELECTRICAL:

Refer to Fireye Flame Scanner bulletin SC-103.

48PT2-100X

TEMPERATURE:

Scanner: Model 140° F max., (60° F) min., 60°C max., (-40°C) min.

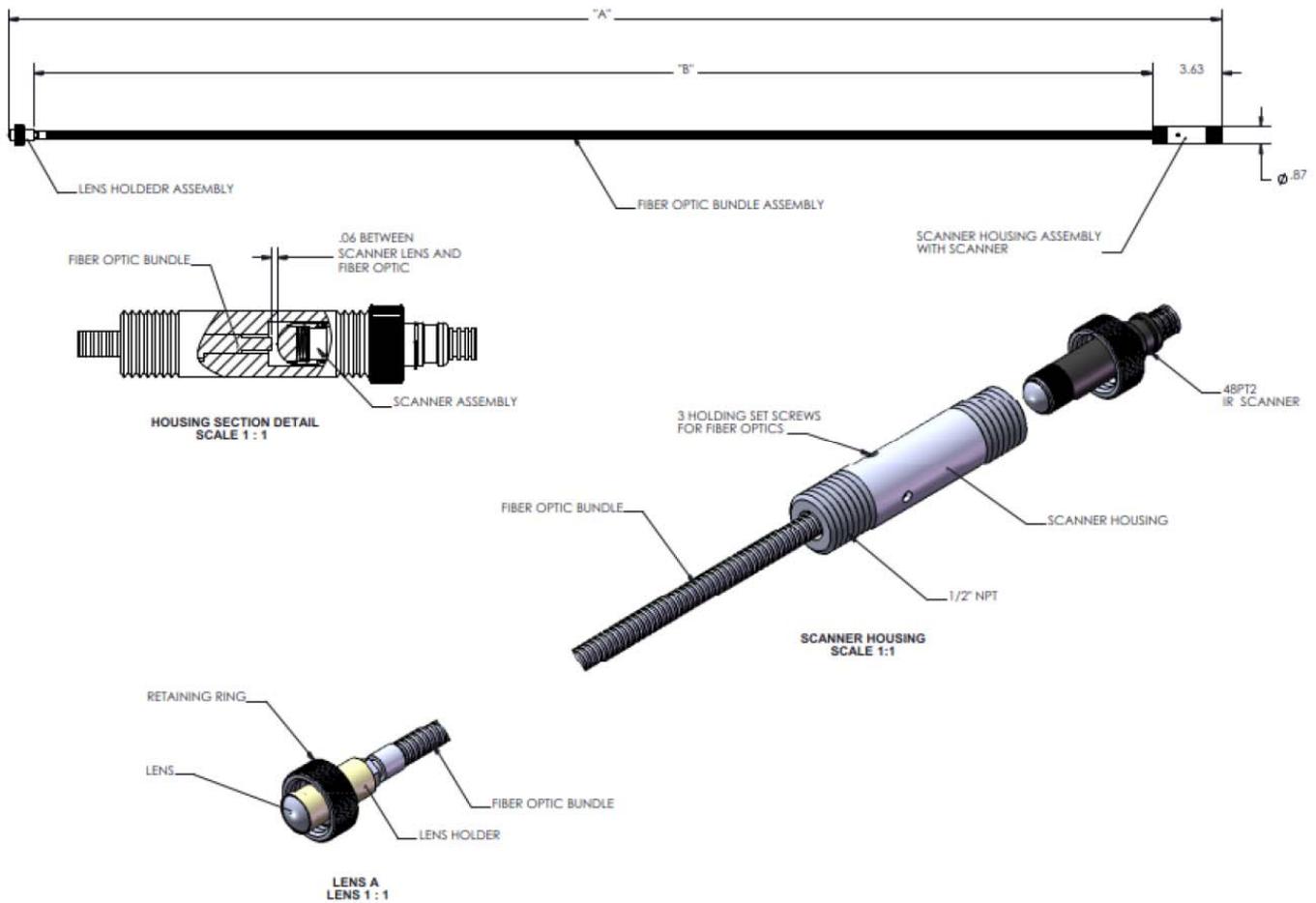
Fiber Optics: 800°F (427°C) max. glass (for infrared)

OPTICAL FIELD OF VIEW: 13 sq. in. @ 3 feet (100 sq. cm. @ 1.0 meter)



DIMENSIONS:

Table 1		
Part	Dim A	Dim B
IRFK-3	39.8	34.9
IRFK-5	63.8	58.9





ORDERING INFORMATION

IRFK-3	Glass Fiber Optic With 3' Fiber Bundle
IRFK-5	Glass Fiber Optic With 5' Fiber Bundle
48PT2-100X	Infra-Red Scanner

	CAUTION: Fireeye scanners are for use only with Fireeye controls. Do not connect Fireeye scanners with controls not manufactured by FIREYE.
	CAUTION: If component checking is required during burner operation for constantly fired burners, utilize the infrared flame scanner (48PT2) with associated AutoCheck amplifier. For Flame-Monitor systems use the E1R1, E1R3 or E1R2 and for MicroM systems use the MEIR1 or MEIR4.
	Warning- all installation, service and troubleshooting of Fireeye products must be performed by a qualified technician.

NOTICE

When Fireeye products are combined with equipment manufactured by others and/or integrated into systems designed or manufactured by others, the Fireeye warranty, as stated in its General Terms and Conditions of Sale, pertains only to the Fireeye products and not to any other equipment or to the combined system or its overall performance.

WARRANTIES

FIREYE guarantees for *one year from the date of installation or 18 months from date of manufacture* of its products to replace, or, at its option, to repair any product or part thereof (except lamps, electronic tubes and photocells) which is found defective in material or workmanship or which otherwise fails to conform to the description of the product on the face of its sales order. **THE FOREGOING IS IN LIEU OF ALL OTHER WARRANTIES AND FIREYE MAKES NO WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED.** Except as specifically stated in these general terms and conditions of sale, remedies with respect to any product or part number manufactured or sold by Fireeye shall be limited exclusively to the right to replacement or repair as above provided. In no event shall Fireeye be liable for consequential or special damages of any nature that may arise in connection with such product or part.

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