

FASA Glass and Quartz Fiber Optics

Fiber Optics for UV, IR, or UV+IR flame detection to extend the viewing head's ability to better see the flame in the combustion chamber.

Overview



Ideally suited for sighting where direct flame viewing is not possible, where ambient temperature is above viewing head rating or where it is necessary to get closer to the flame. Fiber optics effectively extends the optical path of a viewing head allowing for greater flexibility in sighting flames. Two types of fiber optics are available in glass for oil and coal flame monitoring and quartz for all fuel types. The fiber optics assembly is custom built and may include outer carrier, inner carrier and fiber optic bundle, depending upon the application. The assembly may be flexible with rigid section or all rigid with engineered adapters for support at the burner end. Two types of lens assemblies are available; FOLC-SC provides straight angle of view, while FOLC- 9C provides for 9 degree skewed viewing angle. Different adapters, with or without air purge, are available for viewing end. All Honeywell Signal Processors and the U2 series all-in-one Viewing Head may be used with the fiber optic system.

Features & Benefits:

- Adapted and custom built for each application
- Protected by three layer, armored fiber optic cable, inner carrier and outer carrier
- Adapters available at viewing head end for 1/2 or 1 NPT connection
- Special engineering request available for adapting the burner from requirements
- Transmission length is application dependent
- Withstands high temperatures and vibrations
- Corrosion protected stainless steel construction
- Two different lens assemblies for angle of view

Specifications

AIR & COMBUSTION AIR SPECIFICATIONS

Cooling/Purge Air Option

- 10 SCFM at 10 in WC (0.25 m³/min at 25.4 mm WC)
- Oil and moisture-free, < 40 deg C

CONNECTIONS & INTERFACES

Viewing Head Connection

- 1/2 in NPT on viewing head flange (model dependent)

INPUTS, OUTPUTS & INTERFACE SIGNALS

Transmission Distance

- Up to 25 feet (approximately 8 meters)



ENVIRONMENTAL CONDITIONS

Environmental Rating

- NEMA 4X (IP56), lens end sealed for hazardous locations

DIMENSIONS & WEIGHT

Mounting Dimensions

- 3 in NPT mounting via 3 locking screws
- Outer carrier: 3.375 in OD x 9 in long

TEMPERATURE CONTROL/MEASUREMENT

Temperature Rating

- -40 to +662 deg F (-40 to +350 deg C)

PRODUCT OVERVIEW & CLASSIFICATION

Construction

- Corrosion-resistant stainless steel

APPLICATIONS & COMPATIBILITY

Applications

- Tilting burners (±30 deg movement), Low NOx coal burners, Gas and oil-fired turbine generators, Situations with obstructed flame view or high vibration/temperature, Corner-fired units with parallel fuel flow

CONTROL, LOGIC & FUNCTIONAL BEHAVIOR

Functions

- Extends flame detector viewing capability in hostile or obstructed environments

Filters

▼ CATEGORY	
☒	Spare Part
☒	Base Part
▼ TYPE	
☒	Fiber Optic Adapter
☒	Fiber Optic Lens Cartridge and Coupler
☒	Fiber Optic Assembly
☒	Fiber Optic Lens
Search	
Part Number	50107568-001
Description	FO ADPT BDY LENS
Category	Spare Part
Type	Fiber Optic Lens Cartridge and Coupler
	Order Online
Part Number	FASA
Description	FIBER OPTIC VH EXTENSION ASSEMBLY
Category	Base Part
Type	Fiber Optic Assembly
	Order Online



Part Number	FASA-INT
Description	FIBER OPTIC INTERNAL EXTENSION ASSEMBLY
Category	Base Part
Type	Fiber Optic Assembly Order Online
Part Number	FOLC-9C
Description	FIBER OPTIC LENS CARTR/COUPLR (9 DEGR)
Category	Spare Part
Type	Fiber Optic Lens Cartridge and Coupler Order Online
Part Number	FOLC-HS
Description	.5"NPT CONN FO LENS CART
Category	Spare Part
Type	Fiber Optic Lens Cartridge and Coupler Order Online
Part Number	FOLC-SC
Description	FIBER OPTIC LENS CARTR/COUPLR (STRAIGHT)
Category	Spare Part
Type	Fiber Optic Lens Cartridge and Coupler Order Online
Part Number	S550FOAD
Description	FIBER OPTICS FOR S55XB/BE
Category	Spare Part
Type	Fiber Optic Adapter Order Online
Part Number	S550FOADY-FT
Description	FIBER OPTICS W.AIRPURGE FOR S55XB/BE
Category	Spare Part
Type	Fiber Optic Adapter Order Online
Part Number	S592-PC
Description	FIBER ASSY QRTZ LENS FOR S592/S593
Category	Spare Part
Type	Fiber Optic Lens Order Online
Part Number	S592-PP
Description	PLANO/PLANO WINDOW FOR S592/S593
Category	Spare Part
Type	Fiber Optic Lens Order Online

Rows

10 ▾

Product Number



Please sign in to view part numbers available for purchase based on your account

Sign In

50107568-001

FO ADPT BDY LENS

50107568-001

FO ADPT BDY LENS

FASA

FIBER OPTIC VH EXTENSION ASSEMBLY

FASA

FIBER OPTIC VH EXTENSION ASSEMBLY

FASA-INT

FIBER OPTIC INTERNAL EXTENSION ASSEMBLY

FASA-INT

FIBER OPTIC INTERNAL EXTENSION ASSEMBLY

FOLC-9C

FIBER OPTIC LENS CARTR/COUPLR (9 DEGR)

FOLC-9C

FIBER OPTIC LENS CARTR/COUPLR (9 DEGR)

FOLC-HS

.5"NPT CONN FO LENS CART

FOLC-HS

.5"NPT CONN FO LENS CART

FOLC-SC

FIBER OPTIC LENS CARTR/COUPLR (STRAIGHT)

FOLC-SC

FIBER OPTIC LENS CARTR/COUPLR (STRAIGHT)

S550FOAD

FIBER OPTICS FOR S55XB/BE

S550FOAD

FIBER OPTICS FOR S55XB/BE

S550FOADY-FT

FIBER OPTICS W.AIRPURGE FOR S55XB/BE

S550FOADY-FT

FIBER OPTICS W.AIRPURGE FOR S55XB/BE

S592-PC

FIBER ASSY QRTZ LENS FOR S592/S593

S592-PC

FIBER ASSY QRTZ LENS FOR S592/S593

S592-PP

PLANO/PLANO WINDOW FOR S592/S593

S592-PP

PLANO/PLANO WINDOW FOR S592/S593

