

Symphony Plus Combustion Instruments

Multi Fuel Safe Flame Scanner Uvisor™ SF810-PYRO

The SF810-PYRO is the innovative approach of ABB to meet the stringent requirement of safety and the challenging demand of qualitative information for a combustion monitoring system

The SF810-PYRO flame scanner bases on the proven rock solid technology of the standard SF810 flame scanner series and it features the sensing element for the FAU810 analysis unit to compute the Flame Temperature measurement in real time.

The SF810-PYRO flame scanner offers an valuable input to improve the total NOx reduction control strategy by monitoring the local combustion process.

In a rugged housing, the Uvisor SF810-PYR embeds the solid-state sensor modules, covering the IR flame radiant spectrum. Terminations are available as screw type removable connectors; as quick release connector for IP66/67 or as quick release connector for II 2GD Ex d IIC T 6 hazardous areas.

The Uvisor SF810-PYR flame scanner is a vailable with accessories for the following installations:

- Line of sight (LOS) for wall fired burners' boilers
- Fiber optic cable (FOC) with outer guide pipe, for corner fired tilting burners' boilers

Application:

Utility and Industrial boilers

- Wall fired, corner fired, down-shot and cyclone burner
- Pulverized coal
- Biomass



Features:

Operation

- IR solid state dual-color sensors
- Continuous self-check
- FFFRT Fast Flame Failure Response Time
- ATEX II 2GD Ex d IIC T6 tD A21 IP66 T80°C
- Line of sight with accessories to give precise alignment with the flame
- Rigid fiber optic cable to improve discrimination performance for deep wind boxes
- Flexible fiber optic cable to maintain flame alignment for tilting burner.

Technical specifications

Property	Value
Optical sensor Technology	IR versions: Si-Si dual color photodiode Field of view 3" DIA spot @ 3000 mm from the point of installation (LOS type)
Measured temperature range	800°C to 1800° (1472° F to 3272°F) @ +/-1% absolute accuracy
Power supply voltage	Flame Analysis Unit FAU810 Powered
Power consumption	Max 600 mW
Local configuration	No
Air source for lens cleaning	From clean ambient air
Air flow for lens cleaning	LOS (Line Of Sight) versions: 115 l/min (4 SCFM) Excessive contaminants might require a flow up to 400 l/min (14 SCFM) FOC (Fibre Optic Cable) versions: 400 l/min (14 SCFM)
Minimum cleaning air pressure	LOS (Line Of Sight) versions: 20mm H2O (1" W.C.) above the max wind box pressure measured at the "Y" connection inlet. FOC (Fiber Optic Cable) versions: 300mm H2O (12" W.C.) above the max wind box pressure measured at the "Y" connection inlet.
Maximum fiber optic continuous operating temperature	482° C (900° F) for VL and IR fiber optic cables 350° C (662° F) for UV and dual sensor UVIR fiber optic cable
Housing mounting thread	1" NPT male
Cable entry thread	- 3/4 "NPT female tread (Scanner models "T" and "TL") - 16 contacts quick release connector type CVB-EX. Protection mode: Ex d IIC T6 tD A21 IP66/IP67 T85°C (Scanner models "QC") - 16 contacts quick release connector. Protection mode: IP66/IP67 (Scanner models "Q")
Electrical connections (terminal versions)	Removable terminals with screws Allowable cable section: AWG 28-AWG16, 0,08-1.5mm ² Recommended ABB standard cable: - Single Sensor scanner drawing no. EC-DWG-G041ELE803 - Dual Sensor scanner drawing no. EC-DWG-GO41ELE802 Maximum distance between SF810 scanner and FAU810, Flame Analysis Unit 500 meters (1500 feet)
Compatible Control Unit	The SF810-PYR flame scanner is compatible only with the Flame Analysis Unit FAU810 (FW Vers. =/> 3.13

Environmental specification

Property	Value
Safety Specifications	EN 61010-1 (IEC 61010-1)
Class of installation	I
Over voltage category	I
Pollution degree Protection (EN 60529)	2 IP66 – IP67
Ambient Operating temperature (EN/IEC 60068-2-1/2/14)	- 40° to 60°C (-40°F to 140°F)
Ambient Storage and transportation temperature (EN/IEC 60068-2-1/2/14)	- 40°C / 85°C (-40 to 185 °F)
Relative humidity (EN/IEC 60068-2-78)	40°C, RH 95%
Vibration sinusoidal operating (IEC 654-3 Severity Class VH4) (IEC 60068-2-6)	Frequency range: 5 ÷ 200 Hz, Acceleration: 20m/s ² peak (2 G) Displacement: 0.15 mm peak
Shock operating (IEC 60068-2-27)	Acceleration: 15G - Duration of pulses: 11 ms duration (half sine wave) - Three shocks in each direction (6 pulses in each axis)

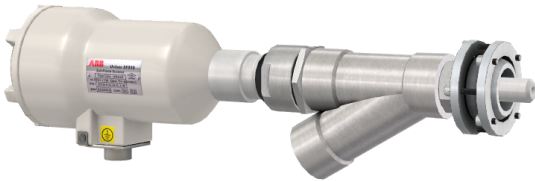
Mechanical specification

Property	Value
Dimensions	Diameter 95 mm max (3,7") Overall length: 180mm approx (7")
Weight	1 kg approx. (2.2 lb)
Degree of protection	IP66 – IP67 (CEI EN 60529) Equivalent NEMA 4x

SF810-PYR flame scanner

Line of Sight (LOS)

Standard assembly



Line of Sight installation is recommended on those application where the target burner flame is visible and unobstructed from the burner mounting front plate through the air vane.

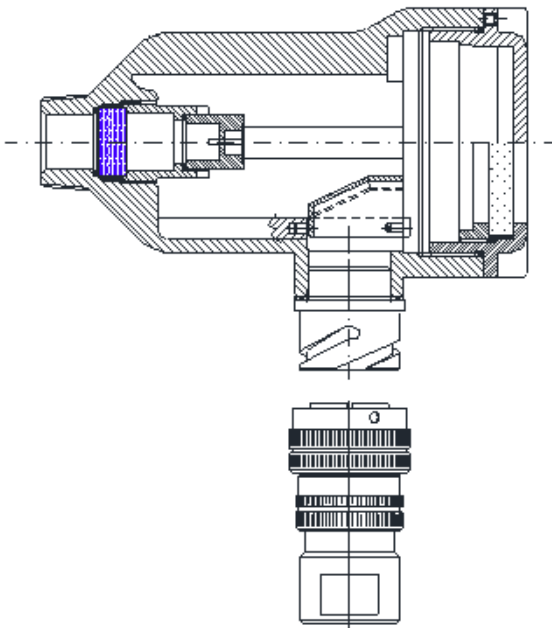
Typical application:

- Front and opposite wall fired boiler
- Single and multiple burners

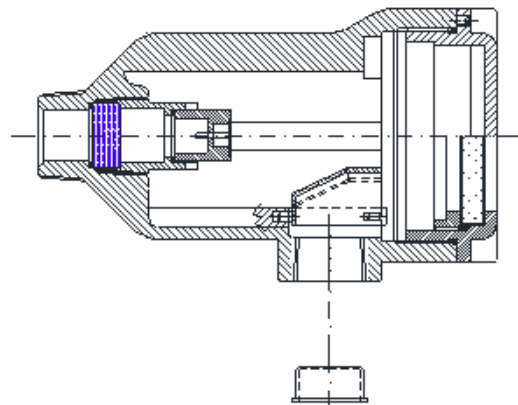
Wiring Options

SF810-PYR Line Of Sight Flame Scanner is available with the following wiring options:

SF810-PYR model LOS with "Quick Release" multipin connector

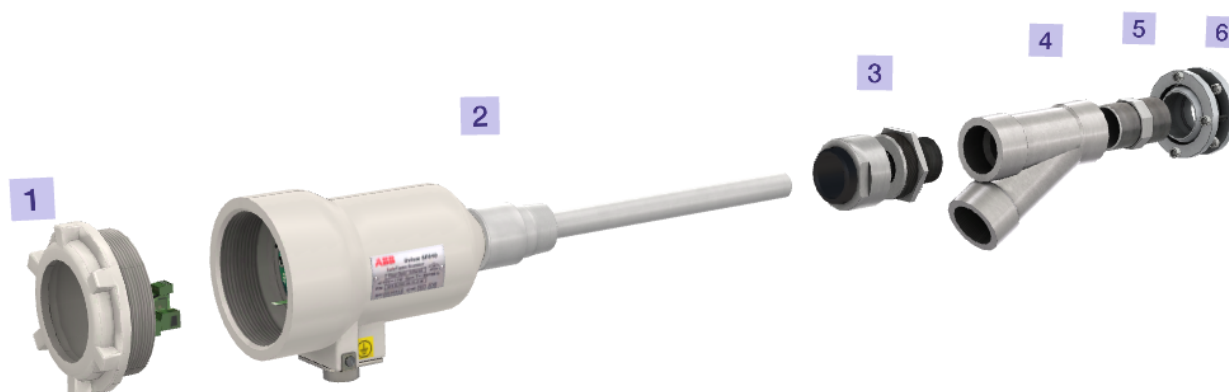


SF810-PYR model LOS with 3/4" NPTF cable entry and terminal strip



SF810-PYR flame scanner

Line of Sight standard assembly layout and parts



Item	Description	Detailed drawing number	Note	Q.ty
1	Uvisor SF810-PYR Flame Scanner		Windowed cover	1
2	Uvisor SF810-PYR Flame Scanner	Ref. SF810 / SF810INT codes	Housing with telescope	1
3	Thermal union	EC-DWG-G041MEC011-A		1
4	Cooling air manifold 1" NPTF	EC-DWG-G041MEC010-A		1
5	Nipple 1"NPTM / 1" NPTM	EC-DWG-G041MEC406-A		1
6	Swivel mounting flange	EC-DWG-G041MEC0101-A		1
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SF810-PYR flame scanner

Fiber Optic Cable (FOC) standard assembly



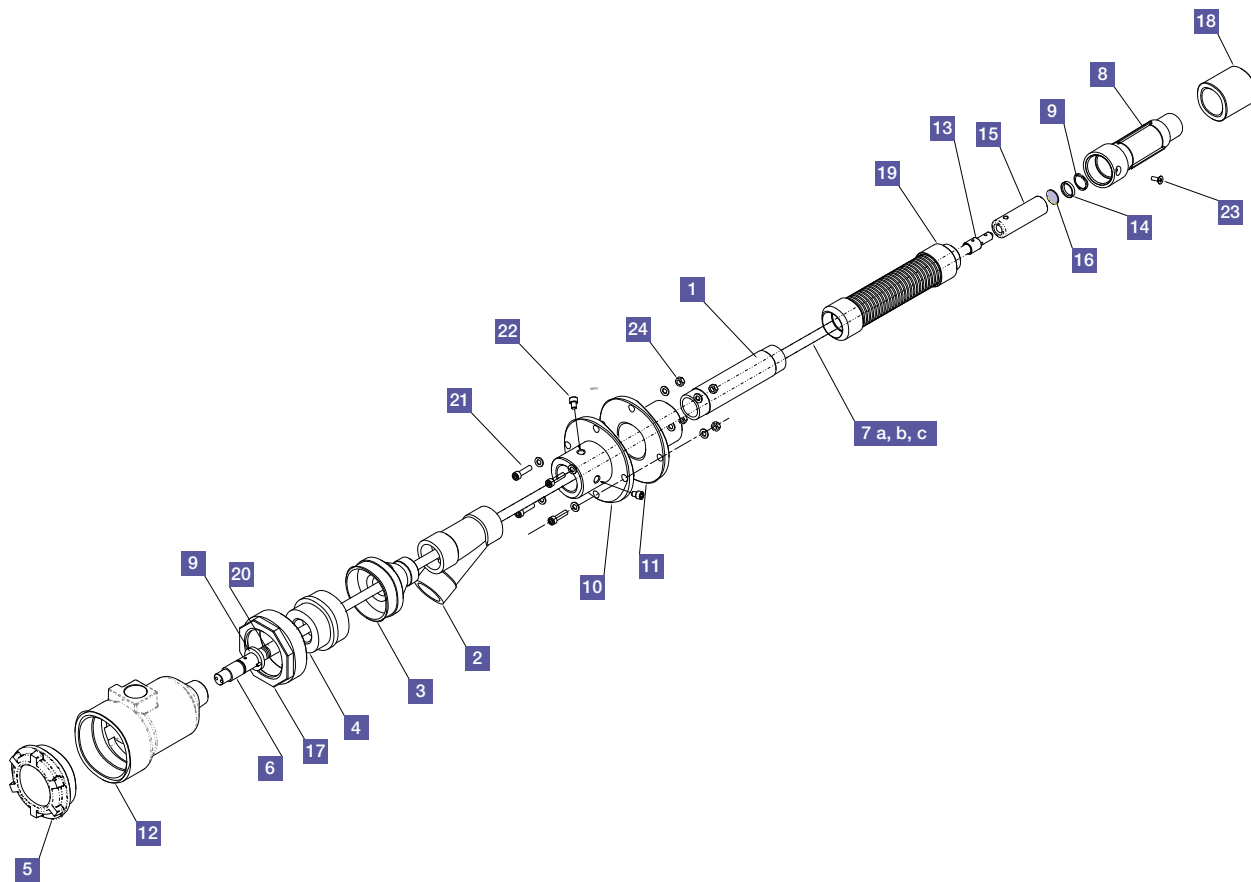
Flexible Fiber Optic installation is recommended on those application where the target burner flame is not visible from the burner mounting front plate. Flexible fiber optic is also the preferred solution to relocate the sensor unit wherever heat, dust and vibration of the burner deck are particularly severe.

Typical application:

- Tilting burner boilers

Fiber Optic Cable (FOC)

Flexible assembly layout and parts



Standard assembly of the SF810-PYR flame scanner model FOC with flexible guide pipe

Item	Description	Part number	Material	Note	Q.ty
1	1" RIGID MAIN PIPE	EC-DWG-G041MEC019-A	STEEL UNI EN 10240		1
2	COOLING AIR MANIFOLD 1" NPTF	EC-DWG-G041MEC010-A	CAST ALLUMINUM ALLOY		1
3	MANIFOLD ADAPTER	EC-DWG-G041MEC011-A	ALLUMINUM ALLOY		1
4	THERMAL ISOLATOR	EC-DWG-G018MEC761-B	AISI 321		1
5	UVISOR SF810/SF810I FLAME SCANNER		CAST ALLUMINUM ALLOY	WINDOWED HOUSING COVER	1
6	FIBER OPTIC TERMINAL-COLD SIDE				1
7a	FIBER OPTIC CABLE	EC-DWG-G041MEC020-C	AISI 321	SINGLE SENSOR IR	1
7b					1
7c					1
8	EXTERNAL GUIDE PIPE TERMINAL	EC-DWG-G041MEC012-B	AISI 304		1
9	SEEGER RING			INNER 20MM UNI3654-7437	1
10	BOILER MOUNTING FLANGE	EC-DWG-G041MEC015-A	FE 360 GALVANIZED		1
11	BOILER MOUNTING COUNTER FLANGE	EC-DWG-G041MEC014-A	FE 360 GALVANIZED		1
12	UVISOR SF810/SF810I PYR FLAME SCANNER		CAST ALLUMINUM ALLOY	SCANNER HOUSING	1
13	FIBER OPTIC TERMINAL - HOT SIDE	EC-DWG-G041MEC017-B	AISI 304		1
14	LENS RETAINER	EC-DWG-G041MEC008-A			1
15	LENS HOLDER	EC-DWG-G041MEC005-C	AISI 304		1
16	LENS	EC-DWG-G041MEC006-A			1
17	LOCKING RING NUT	EC-DWG-G041MEC024-A	ALLUMINUM ALLOY ANTICORODAL		1
18	GUIDE COLLAR	EC-DWG-G041MEC016-B	AISI 304		1
19	FLEXIBLE HOSE	EC-DWG-G041MEC013-B	AISI 321	STANDARD LENGTH = 1100MM (43.3")	1
20	LOADING SPRING	EC-DWG-G018MEC771-B			1
21	VEL_M8X35			SCREW HEXAGON SOCKET. M8 X 35	4
22	VEL_M8X10			SCREW HEXAGON SOCKET. M8 X 10	2
23	V5-8--_U7688_PZ			SCREW TSP.CR PZ UNI 7688 M 5X8	1
24	NUT_M8-Z			NUT M8 UNI 5588	4

Fiber Optic Cable (FOC)

Rigid assembly layout and parts



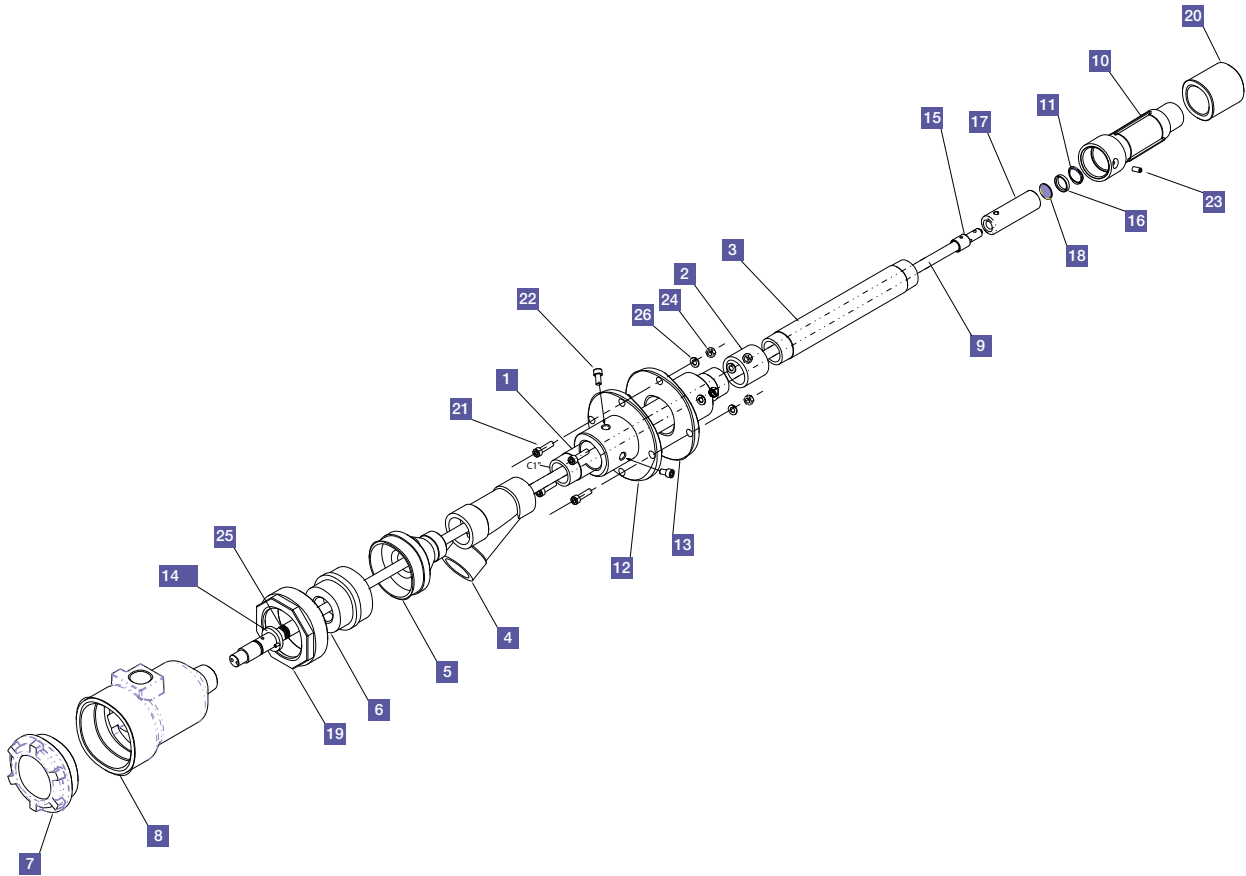
Rigid Fiber Optic installation is typically recommended on those application where the very large windbox prevent an reliable alignment with the standard Line Of Sight assembly from the burner mounting plate.

Typical application:

- Opposite wall fired boiler
- Downshot boiler

Fiber Optic Cable (FOC)

Rigid assembly layout and parts

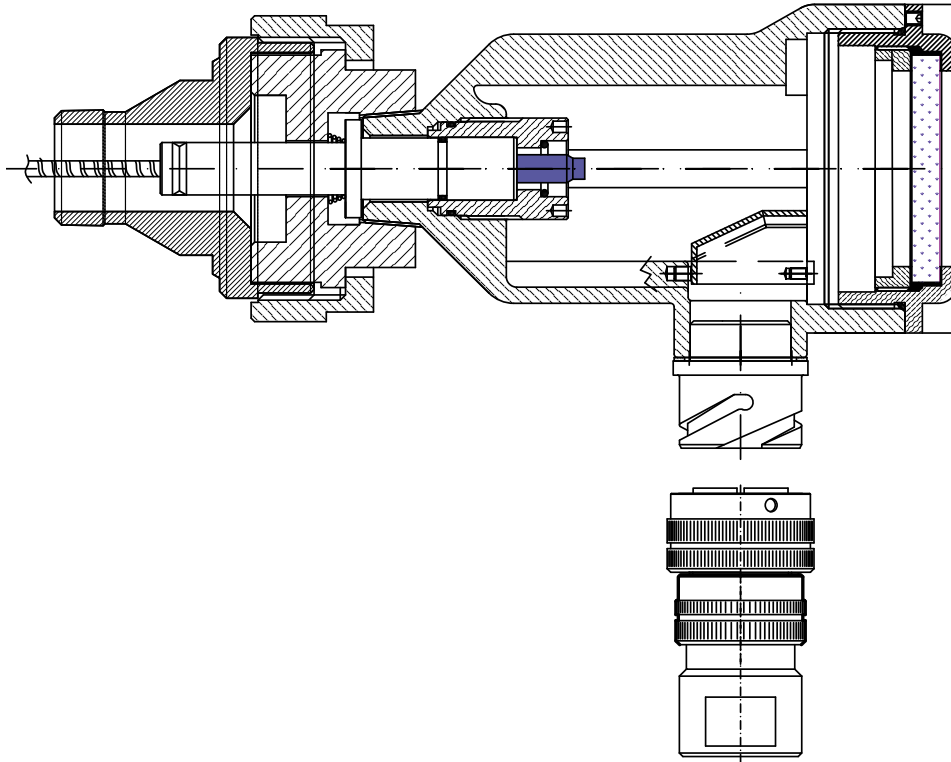


Standard assembly arrangement of the SF810 flame scanner with rigid Fiber Optic Cable

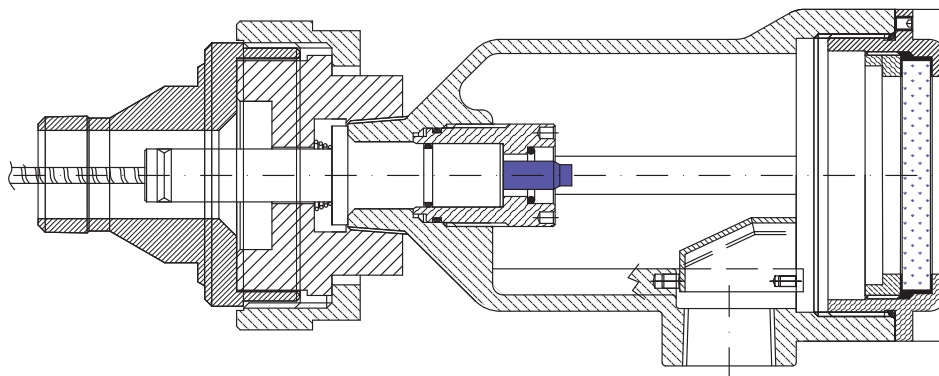
Item	Description	Part number	Material	Note	Q.ty
1	1" RIGID GUIDE PIPE	EC-DWG-G041MEC019-B	STEEL UNI EN 10240	Ref: EC-DWG-G041MEC019-B for assembly details	1
2	1" RIGID PIPE JOINT	EC-DWG-G041MEC026-A	STEEL UNI EN 10241	Ref: EC-DWG-G041MEC019-B for assembly details	1
3	1" RIGID GUIDE PIPE EXTENSION	EC-DWG-G041MEC027-A	STEEL UNI EN 10240	Ref: EC-DWG-G041MEC019-B for assembly details	1
4	COOLING AIR MANIFOLD 1" NPTF	EC-DWG-G041MEC010-A	CAST ALLUMINUM ALLOY		1
5	MANIFOLD ADAPTER	EC-DWG-G041MEC011-A	ALLUMINUM ALLOY ANTICORODAL		1
6	THERMAL ISOLATOR	EC-DWG-G018MEC761-B	AISI 321		1
7	UVISOR SF810/SF810I FLAME SCANNER		CAST ALLUMINUM ALLOY	WINDOWED HOUSING COVER	1
8	UVISOR SF810/SF810I FLAME SCANNER		CAST ALLUMINUM ALLOY	SCANNER HOUSING	1
9	FIBER OPTIC CABLE	EC-DWG-G041MEC020-C	AISI 321		1
10	EXTERNAL GUIDE PIPE TERMINAL	EC-DWG-G041MEC012-B	AISI 304		1
11	SEEGER RING		UNI X35CRM017	INNER 20MM UNI3654-7437	1
12	BOILER MOUNTING FLANGE	EC-DWG-G041MEC015-A	FE 360 GALVANIZED		1
13	BOILER MOUNTING COUNTER FLANGE	EC-DWG-G041MEC014-A	FE 360 GALVANIZED		1
14	FIBER OPTIC TERMINAL-COLD SIDE	EC-DWG-G041MEC023-D	BRASS UNI EN 12164	SINGLE SENSOR IR	1
15	FIBER OPTIC TERMINAL-HOT SIDE	EC-DWG-G041MEC017-B	AISI 304		1
16	LENS RETAINER	EC-DWG-G041MEC008-A	AISI 304		1
17	LENS HOLDER	EC-DWG-G041MEC005-C	AISI 304		1
18	LENS	EC-DWG-G041MEC006-A	SUPRASIL		1
19	LOCKING RING NUT	EC-DWG-G041MEC024-A	ALLUMINUM ALLOY ANTICORODAL		1
20	GUIDE COLLAR	EC-DWG-G041MEC016-B	AISI 304		1
21	VEI_M8x30			BOLT OR SOCKET HEX. SCREW M8x30	4
22	VEI_M8x16			BOLT OR SOCKET HEX. SCREW M8x16	2
23	V5-5			HEX. SET SCREW M5x5	1
24	NUT_M8-Z			NUT M8 UNI 5588	4
25	LOADING SPRING	EC-DWG-G041MEC771-B	STEEL		1
26	GROWER (UNI 1751 B) for M8				4

Fiber Optic Cable (FOC) scanners

Wiring Options



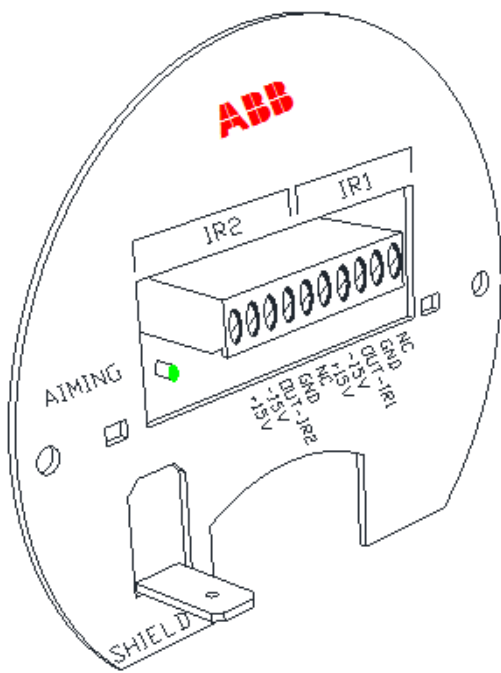
SF810-PYR model FOC with "Quick Release" multipin connector



SF810-PYR model FOC with 3/4" NPTF cable entry and terminal strip

SF810-PYR electrical connections

SF810-PYR Sensor Faceplate



Connector / Terminal	Signal name	Description
+15 V	+15 V	Power supply positive input from FAU810
-15 V	-15 V	Power supply negative input from FAU810
GND	GND	Return of power supply, ground ref. for all internal electronics.
OUT-IR1	Signal	Live flame signal from IR1
OUT-IR2	Signal	Live flame signal from IR2
NC	NC	(Not used)
SHIELD	Shield	Earth connection point for the shields of the cable(s)
	AIMING	Green light blinks faster when flame Intensity signal increases

SF810-PYR Quick Release Connector

Wiring and pin assignment

Connector pin assignment with standard ABB cable

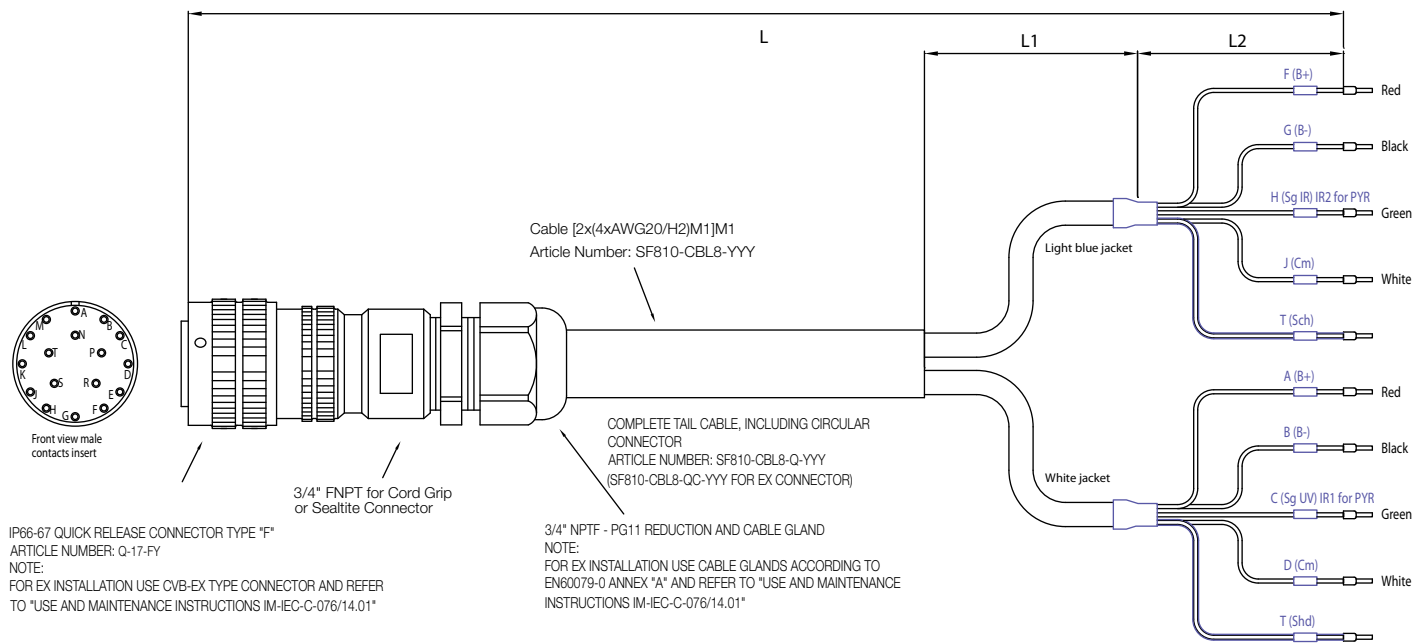
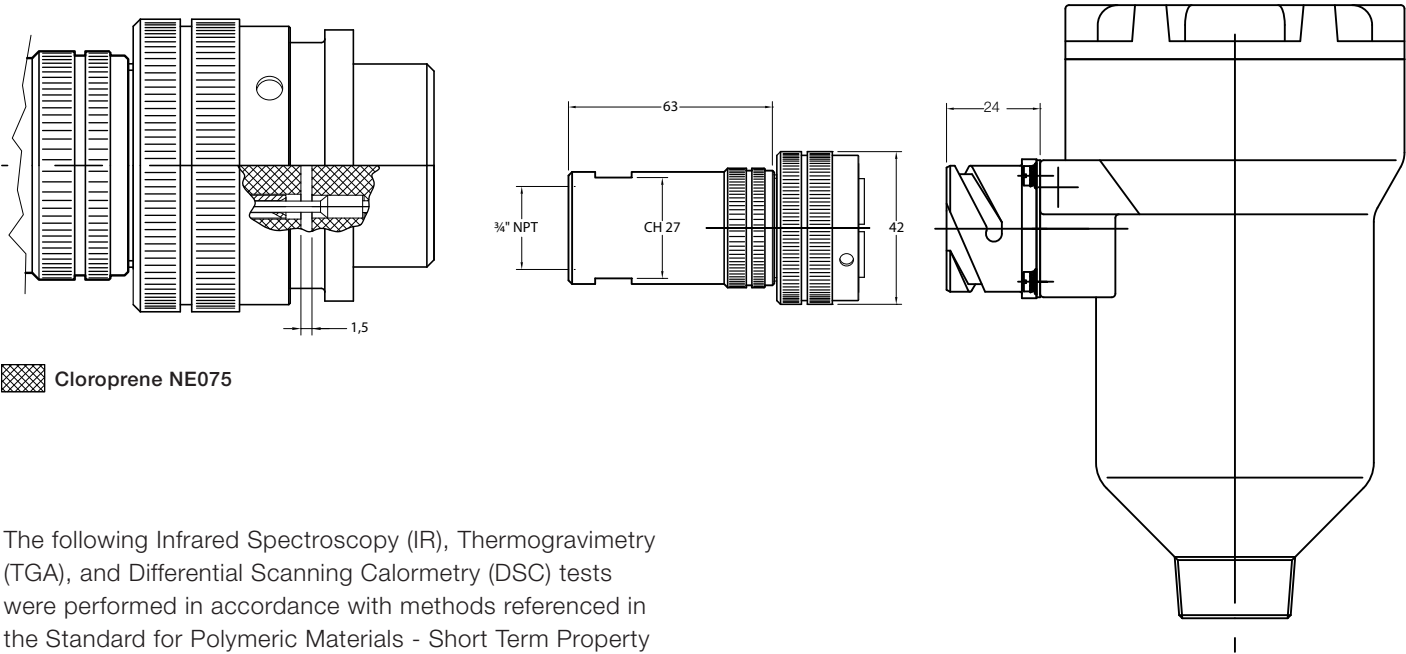


Table 2 - Dual Sensor Connector pin assignment

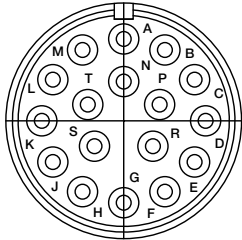
Quick connect pin	SF810 PYR Term. Board	Signal name	Wires colour	Pig tail fly end label	Functional description
F	1	+15V	Red	F (+B)	Power supply +15V from FAU810/DFS
G	2	-15V	Black	G (-B)	Power supply -15V from FAU810/DFS
H	3	IR2 SIG	Green	H (SIG.IR)	Live flame signal IR2
J	4	GND	White	J (Comm)	Power supply return Ground reference
E	5				Not used
A	6	+15V	Red	A (+B)	Power supply +15V from FAU810/DFS
B	7	-15V	Black	B (-B)	Power supply -15V from FAU810/DFS
C	8	IR1 SIG	Green	C (SIG.UV)	Live flame signal IR1
D	9	GND	White	D (Comm)	Power supply return Ground reference
K	10				Not used
L					Not used
M					Not used
N					Not used
P					Not used
R					Not used
S					Not used
T		Shield	Grey	T (Sh)	Cable screen grounding

SF810-PYR Quick Release Connector Specification



The following Infrared Spectroscopy (IR), Thermogravimetry (TGA), and Differential Scanning Calormetry (DSC) tests were performed in accordance with methods referenced in the Standard for Polymeric Materials - Short Term Property Evaluation, UL 746A.

Grade designation	Sample Ticket No.	Composition Ascertained from Infrared Analysis	Reference Dates		
			IR	TGA	DSC
NE075	M211555	CR	08/12/99	02/03/99	06/11/99



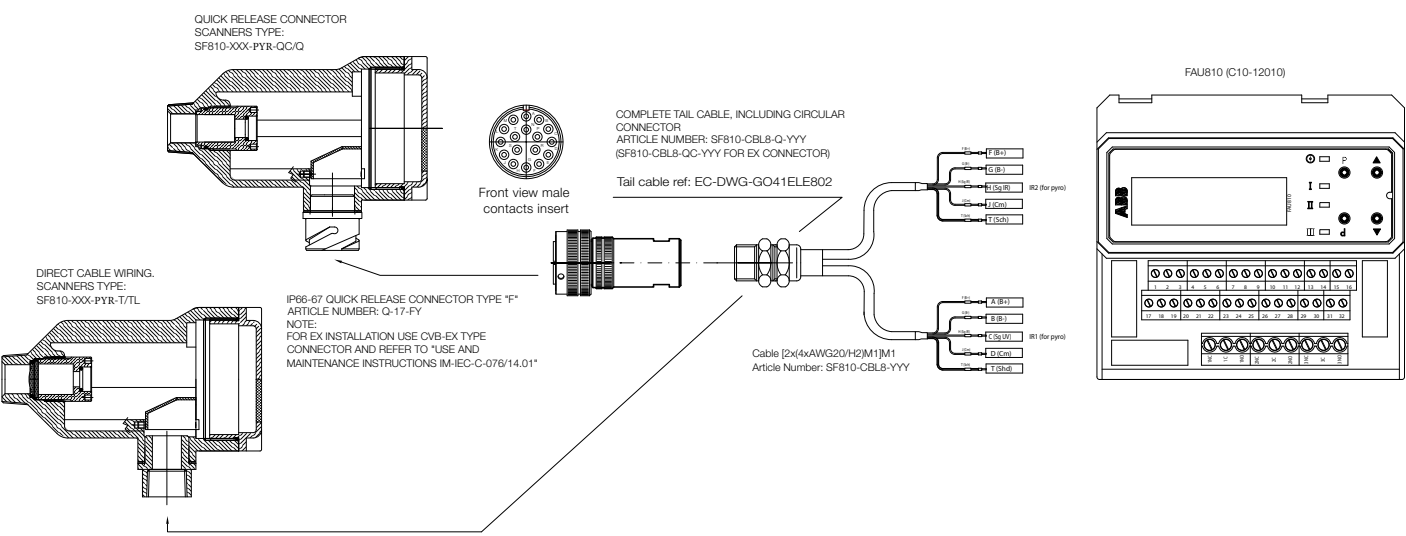
Front view male contacts insert

Arrangement	20-29
No. of contacts	17
Contacts size	16
Service rating	A
Rated temperature	-55° to 125°C

Service rating	Min. distance air spacing guaranteed	Min. distance creepage guaranteed
A	1.6mm	3.2mm

Service rating	Operating voltage V D.C.	Operating voltage V A.C.	Test voltage V A.C. RMS	Minimum flashover V A.C. RMS
A	700	500	2000	2800

SF810-PYR wiring diagram



SF810-PYR Terminal Board	FAU810 Terminal board	Signal
+15V	+B (18)	+15VDC
-15V	-B (21)	-15VDC
Out_IR1	IN (19)	Live flame signal IR1
GND	COM (20)	GND
NC		NC (not used)
SHIELD	Ext. Ground Bar	SHIELD
+15V	+B (23)	+15VDC
-15V	-B (26)	-15VDC
Out_IR2	IN (24)	Live flame signal IR2
GND	COM (25)	GND
NC		NC (not used)

Wiring Note:
Flame Analysis Unit FAU810 both sensor input channels must be configured for IR sensor. Please refer to FAU810 User Manual for input settings

SF810

Versions and ordering codes

ABB SF810 SafeFlame Scanner is offered with several mounting and wiring options to suite customer needs. The standard version comes with removable terminals. Quick release connector and preassembled connecting cable is also available. Contact your local ABB organization for additional details.

Feature	Available models	Uvisor SF810 ordering codes
Installation type	FOC (Scanner head for Fiber Optic Cable)	SF810 - FOC PYR - ...
	LOS (Scanner head for Line Of Sight)	SF810 - LOS PYR - ...
Cabling method, protection index, hazardous areas	Removable screw terminals IP66/IP67 - EX	SF810 - - PYR - T
	Removable screw terminals IP66/IP67	SF810 - - PYR - TL
	Quick-release connector IP66/IP67	SF810 - - PYR - Q
	Quick-release connector IP66/IP67 - EX	SF810 - - PYR - QC
Housing	Stainless steel AISI316 case	SF810 - - PYR - TX
Notes		IP66/IP67 and EX certificates on FOC assemblies are guaranteed only with ABB fiber optic cable P/N: - EC-DWG-G041MEC020

Spare Parts

Assembly type	Article number	Description
SF810-FOC-PYR all models	Lens SF810-FOC	19mm Quartz Lens for SF810(i)
SF810-FOC-PYR all models	Lens holder SF810-FOC	SF810 FOC Lens Holder with Seeger ring and retainer

Fiber Optic Cable Assembly

Feature	Available choices	Article number
Fiber optic complete assembly	Flexible extension	SF810 - FOAFE - XX - XXXX XX = Sensor scanner type: - IR Infrared - UV Ultraviolet - UVIR Ultraviolet and Infrared XXXX = length (in mm) See Figure "A" Fiber optic flexible assembly includes: - Inner fiber optic cable with lens assembly - Flexible external guide pipe with coupling flange and guide ring
	Rigid extension	SF810 - FOARE - XX - XXXX XX = Sensor scanner type: - IR Infrared - UV Ultraviolet - UVIR Ultraviolet and Infrared XXXX = length (in mm) See Figure "B" Fiber optic rigid assembly includes: - Inner fiber optic cable with lens assembly - Rigid external guide pipe with coupling flange and guide ring

Warning:
The EX certified scanners versions (SF810-FOC-PYR-T and SF810-FOC-PYR-QC) must be mandatory used together with the ABB EX ABB fiber optic cable
P/N: - EC-DWG-G041MEC020

Feature	Available choices	Article number
Fiber optic cable	Fiber Optic Cable for IR sensor	SF810 - FO - G - XXXX Fiber Optic Cable for SF810/SF810i sensor IR Length = base length 1500mm Additional step 250mm to specify with the PO. Ref. Figure "C" for the ordering length
	Rigid	SF810 - OGP - RE - XXXX Guide pipe for SF810/SF810i Rigid Extension for all type sensors Length = base length 1500mm Ref. Figure "B" for the ordering length
Guide Pipe	Flexible	SF810 - OGP - FE - XXXX Guide pipe for SF810/SF810i Flexible Extension for all type sensors Length = base length 1500mm Ref. Figure "A" for the ordering length

Fiber Optic Cable Assembly Ordering Data

Fiber Optic Assembly type: SF810-FOA-FE



Figure A

Fiber Optic Assembly type: SF810-FOA-RE

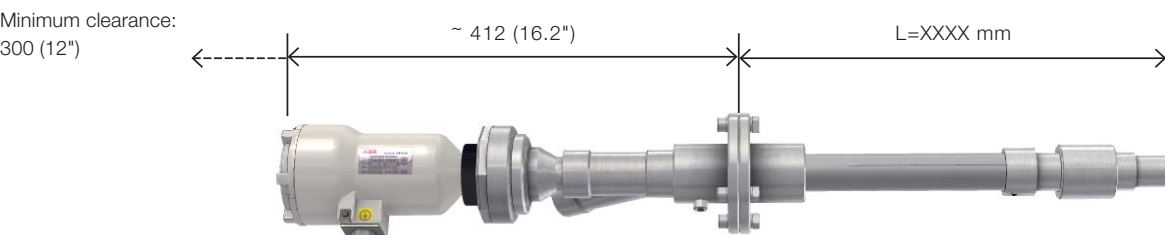


Figure B

Fiber Optic Cable type: SF810-G

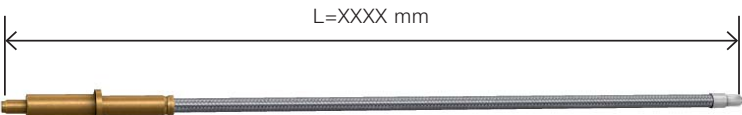


Figure C

SF810 Connecting Cables

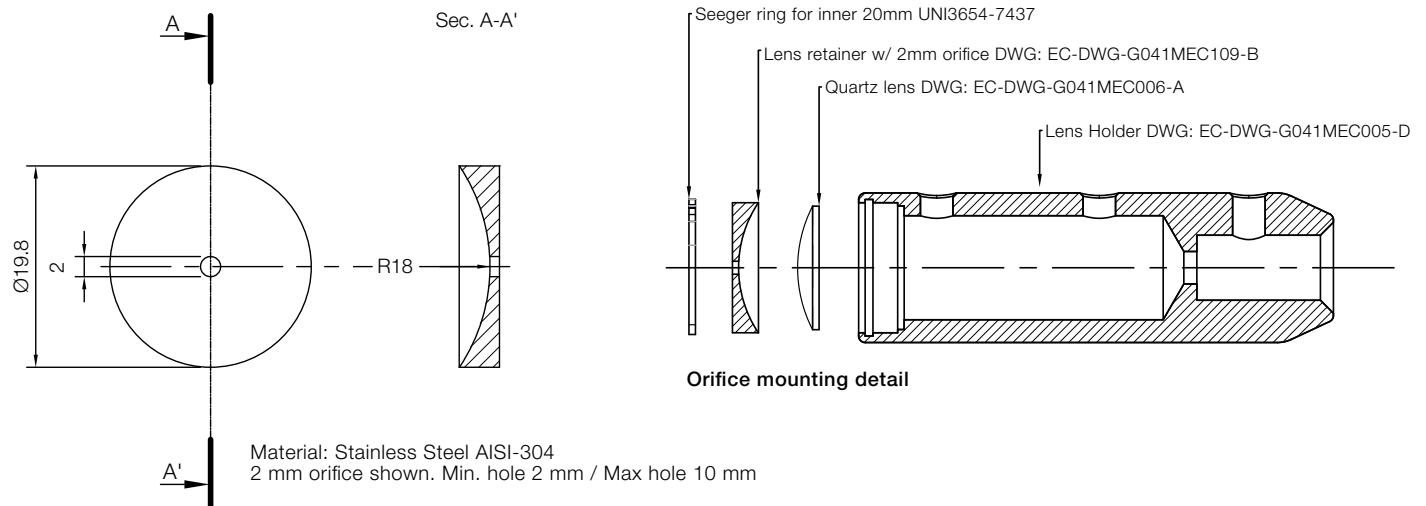
Cable	Article number	Length “L” (meter)	Description
ABB cable for SF810 Dual Sensor Cable only, no connectors	SF810-CBL8 -YYY YYY= meters	L=	Cable type: 2x [4x20 AWG/ST - M1] – BLU - R.5015 - H/F UV RESIST. -20°C +90°C (-4°F +194°F) OD: 14.0±0.5
ABB tail cable for SF810. Cable with pre-assembled quick-release "M" plug at one side only (IP66 / IP67)	SF810-CBL8-Q-YYY YYY= meters	L=	Cable type: 2x [4x20 AWG/ST - M1] – BLU - R.5015 - H/F UV RESIST. -20°C +90°C (-4°F +194°F) OD: 14.0±0.5 preassembled with connector EC-DWG-GO18MEC773-B and Cable Gland
ABB tail cable for SF810. Cable with pre-assembled quick-release "M" plug at one side only. Ex. IP66 / IP67	SF810-CBL8-QCYYY YYY= meters	L=	Cable type: 2x [4x20 AWG/ST - M1] – BLU - R.5015 - H/F UV RESIST. -20°C +90°C (-4°F +194°F) OD: 14.0±0.5 preassembled with connector CVB-EX and Cable Gland
Quick-release connector "F" type. Loose item. IP66 / IP67	Q-17-FY		Drawing ref: EC-DWG-GO18MEC773-B
Quick-release connector "F" type. Loose item. Ex. IP66 / IP67	QC-17-FY		Model: CVB-EX WARNING! Ref. doc. IM.C-110/07.01rev. 02 for Installation and Maintenance Instrucion

SF810-PYR Series Fitting Accessories

Fitting	Article number	Notes
1" NPTM / 1" NPTF Thermal isolation union	THU-1NPTMF	Drawing: EC-DWG-G018MEC779
Purging air “Y” 1" NPTF / 1" NPTF Air inlet ¾" NPTF with Nipple 1" NPTM / 1" NPTM	PAY-1NPTFF	Drawing: EC-DWG-G041MEC010-B
Swivel flange assembly with 1" NPTM nipple and gasket ØEXT=100 mm (3.937")	SWF-1NPTM-100	Drawing: SWF-1NPTM-100
Swivel flange assembly with 1" NPTM nipple and gasket ØEXT=72 mm (2.834")	SWF-1NPTM	Drawing: EC-DWG-G041MEC101-A
Purging air flexible hose - Armoured hose type 2TE DIN 2021 EN854 ND-19 Temperature –30 to 80°C (-22 to 176°F) L=1200 mm	84410-S-0400000	
ND-25 Temperature –30 to 80°C (-22 to 176°F) L=1200 mm (47.2") 2021 EN854 (47.2") Purging air flexible hose - Armoured hose type 2TE DIN	84410-S-0400001	
Armoured cable gland ATEX II 2GD T6 IP66 (gas & dusts)	CG3/4-EEEx	
Counter flange for FOC external guide pipe	84410-S-0400002	Drawing: EC-DWG-G041MEC014-A
Set of diaphragm suitable for FOC LENS HOLDER ASSEMBLY Part: EC-DWG-G041MEC005 (Ø 2/4/6 mm)	TU_KIT03	Drawing: EC-DWG-G041MEC109-B

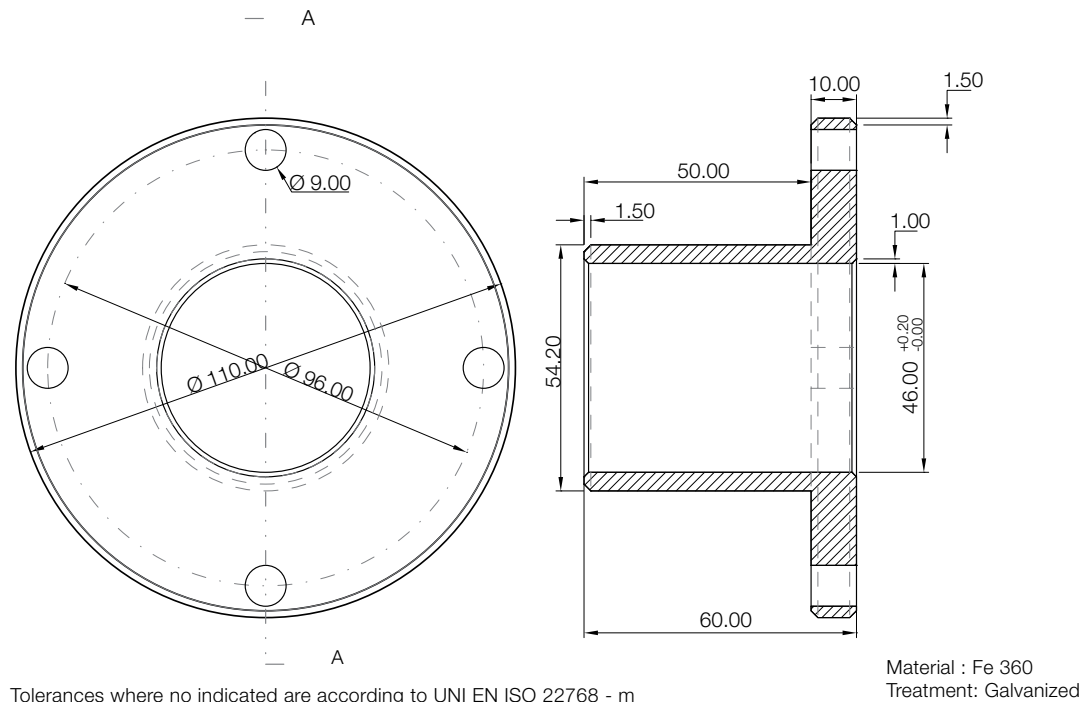
Fiber Optic Cable (FOC) Assembly Fitting options

Orifice Kit for flexible and rigid FOC assemblies



The use of orifice, available with different size, restricts the field of view (target area) and increase discrimination between target flame and adjacent, opposite or background radiation. The orifice is firmly secured in the lens holder assembly and is prevented from falling apart. Once installed, assure the performance within the burner operation range. Article number: TU_KIT03

Boiler mounting counter flange for FOC assemblies P/N: EC-DWG-G041MEC014

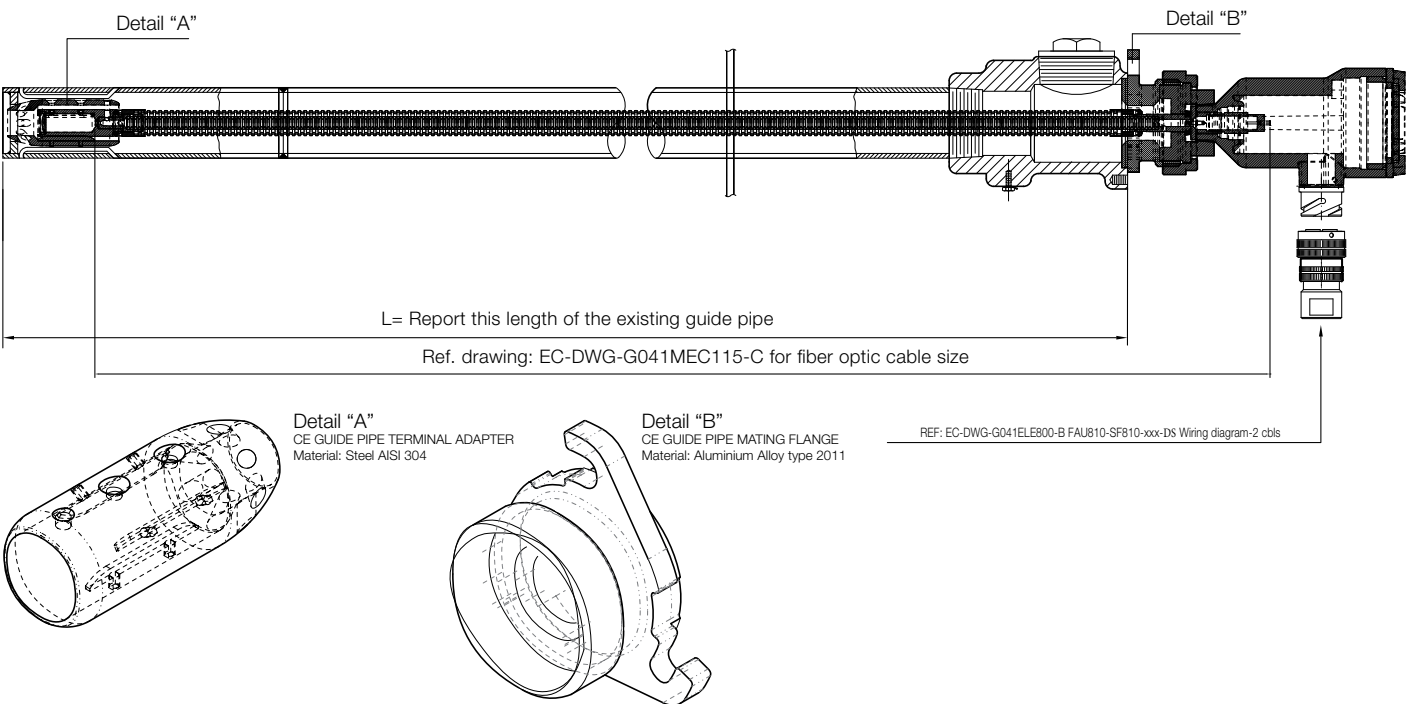


Tolerances where no indicated are according to UNI EN ISO 22768 - m

The boiler mounting counter flange matches the mounting flange of the standard FOC assemblies (Ref. figures A and B).
WARNING! This flange has a galvanic treatment. Following the applicable recommendation for welding, operator is recommended to wear an FFP2 dust mask. Preliminary remove the Zinc from the welding surface(s). Weld the Zinc-free carbon-steel surfaces and restore the corrosion resistance with high in elemental zinc (i.e., "Zinc-rich") paint. This paint can be applied to the weld after wire brushing to remove all welding slag followed by wiping the weld clean with a rag. Article number: 84410-S-0400002

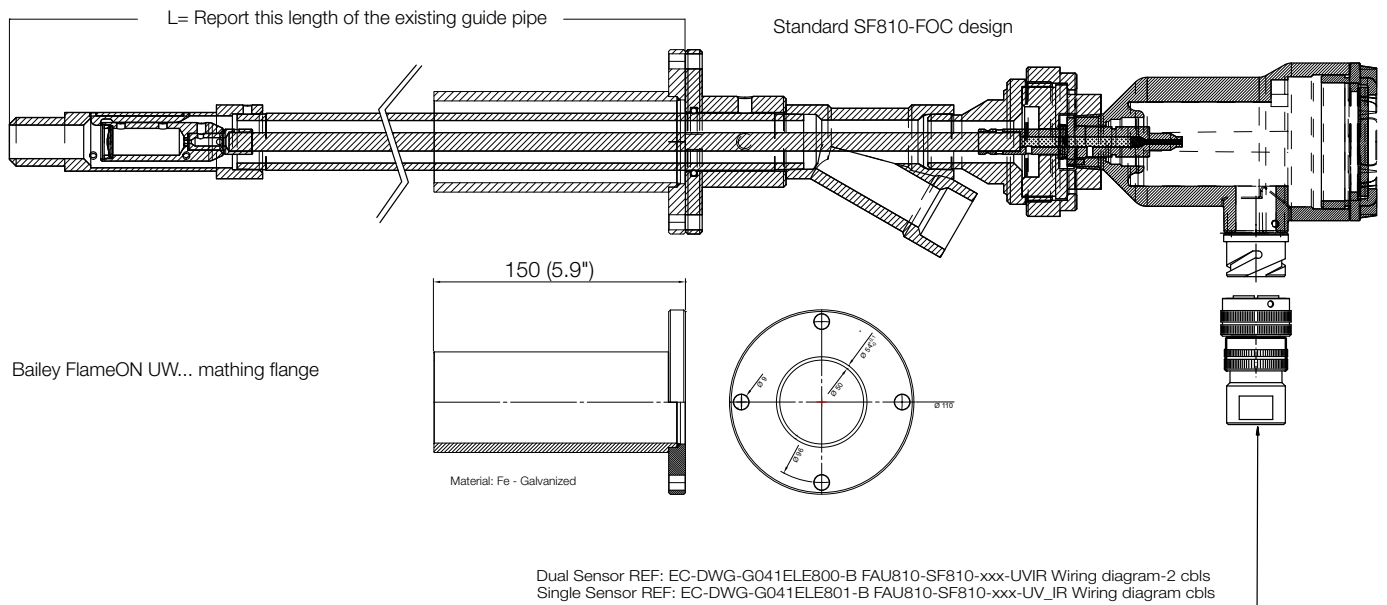
Fiber Optic Cable (FOC) Assembly

DFS Direct Replacement



This option provides the user with a convenient solution to upgrade an existing DFS flame scanner installation, relieving from the external guide tube replacement with all that involves (Major boiler shutdown, scaffolding, cut & welding).
Ref. Assembly P/N: EC-DWG-G041MEC115 Article Number: SF810-FOACE-IR.

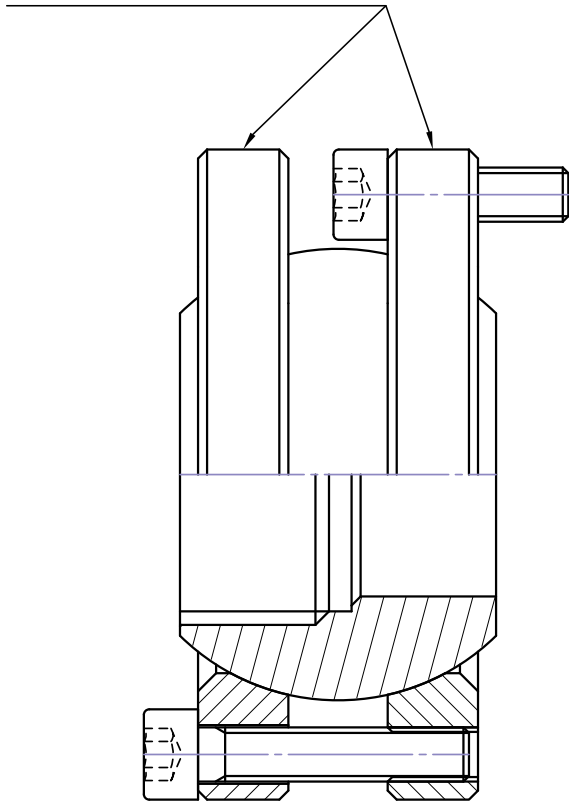
Fiber Optic Cable (FOC) Bailey FlameOn Direct Replacement



This option provides the user with a convenient solution to upgrade an existing Bailey FlameOn flame serie UM...UW...flame scanner with flexible fiber optic design or reflecting tube.
SF810-FOC final equipment selection is based on the specific customer and application needs. Ref. Assembly P/N: EC-DWG-G041MEC119.

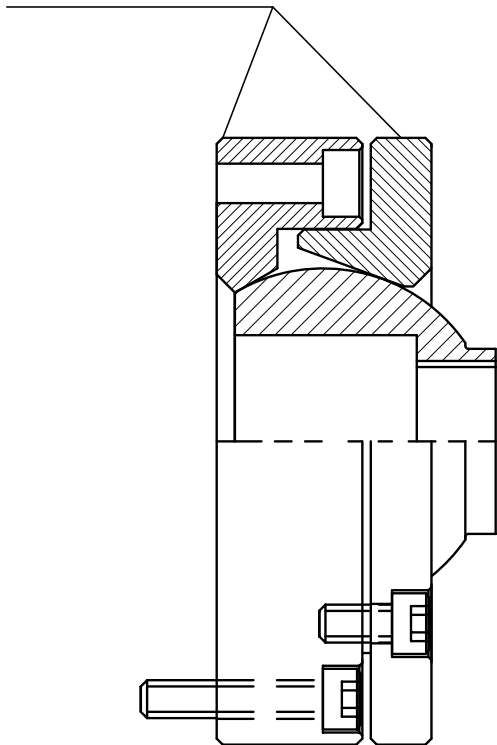
Swivel Flange assembly

(72 mm OD - 2.83")



Recommended to adjust the scanner sighting angle after the scanner has been installed. Article number: SWF-1NPTM-72

(100 mm OD - 3.937")



Recommended to adjust the scanner sighting angle after the scanner has been installed. Article number: SWF-1NPTM-100

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