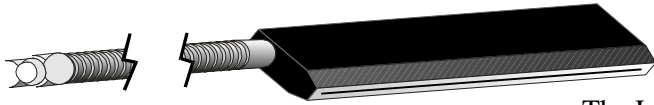
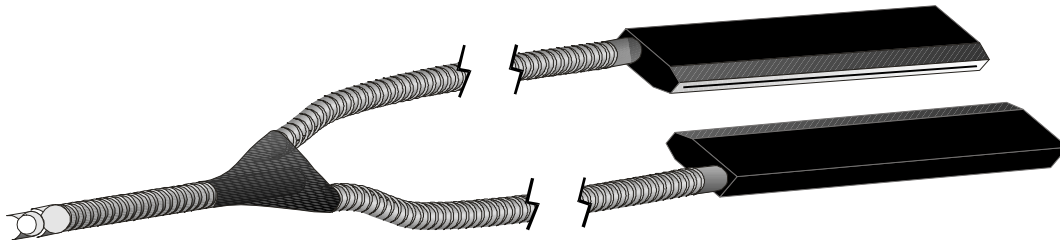


## LINE LIGHT CONFIGURATIONS

### FIBER-LITE®



The Line Light design allows the structuring of light from round light source input to a line output configuration. The area of illumination coverage is defined by the length of the fiber optic line, the 68 degree light output cone on both axes and the stand-off distance. The output will be most uniform on the central axis and equal to the length of the fiber optic line. Thus, selection of the line light should be equal or slightly longer than the target. Decreasing the stand-off distance will increase the level of illumination.



Line Light configurations with quartz-halogen sources are efficient in distributing extremely high levels of cold light and are easily used with Dolan-Jenner strobe sources. An application evaluated with a quartz-halogen source will provide the same results when interfaced to a strobe source.

Single Line Light, QF type, are usually interfaced with line scan camera web applications. If higher levels are desired to increase the application through-put or stand-off distance a rod lens can be selected. A rod lens can provide a stripe in excess of 7,000 footcandles at 12 inches, over seven times brighter than the non-lensed set-up.

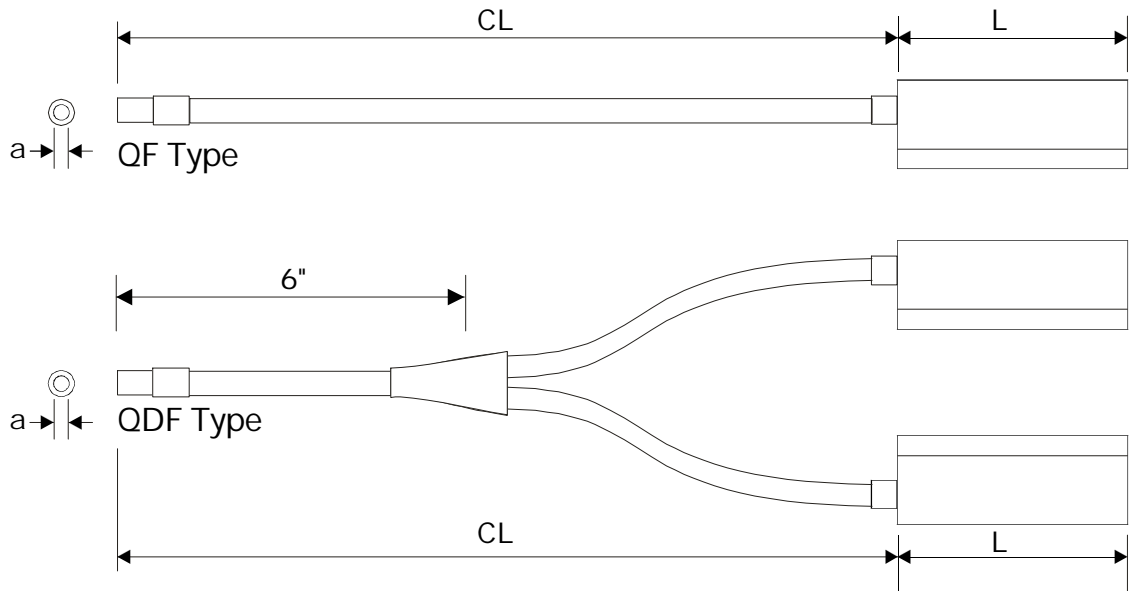
Dual Light Lines, QDF type, can be utilized for two line scan camera use or with area array cameras to evenly illuminate relative flat area targets or to match up with the geometry of long targets such as cans, bottles, containers, rods, etc. Alignment relative to target geometry and angles of incidence are important parameters in obtaining an optimum image.

The dual light line fiber optics are randomized at the input end to increase the uniformity at both output ends. Positioning dual light lines bi-laterally at 45 degree angles to the target allows for balancing the illumination over an area. This illumination balancing compensates for Inverse Square Law losses caused by the outside rays from each line light assembly travelling a longer distance. Thus, on a flat target surface the illuminance from both outputs is summed and provides balanced levels of area illumination.

**LINE LIGHT CONFIGURATIONS**

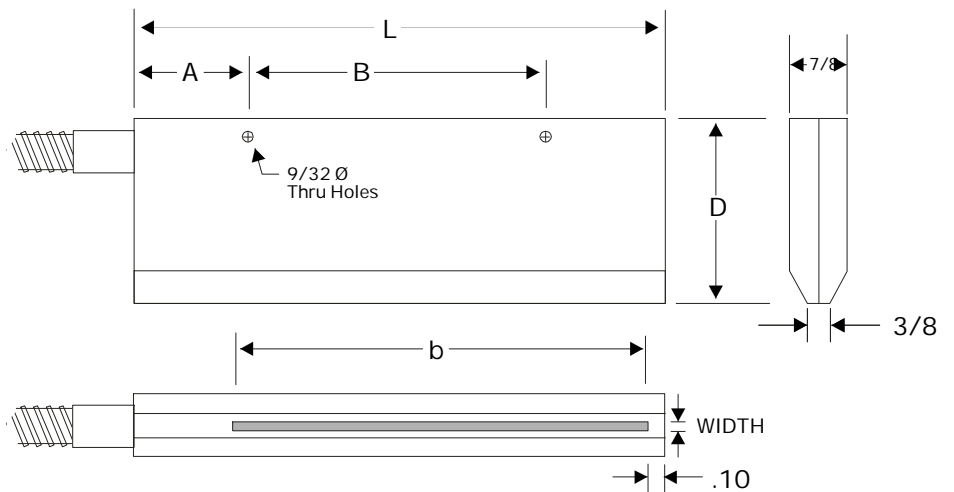
**Mechanical Specifications**

*Material: Black Aluminum Head  
Housing with Interlocking Stainless  
Steel Fiber Optic Cable Sheathing.  
Call for custom configurations.*



CATALOG #	"CL"	aØ		APERTURE		"L"	"D"	"A"	"B"	SX- ADAPTER	
		QF Type	QFD Type	WIDTH	b					QF Type	QFD Type
QF or QDF20_ _	48"/72"	.20"	.28"	.020"	1.50"	2.50"	1.50"	.19"	2.13"	SX-6	SX-7
QF or QDF28_ _	48"/72"	.28"	.39"	.020"	3.00"	4.00"	2.00"	.50"	3.00"	SX-7	SX-10
QF or QDF39_ _	48"/72"	.39"	.55"	.020"	6.00"	7.50"	2.50"	.50"	6.50"	SX-10	SX-11
QF or QDF50_ _	48"/72"	.50"	.71"	.020"	10.00"	11.50"	2.50"	.50"	10.50"	SX-11	NA

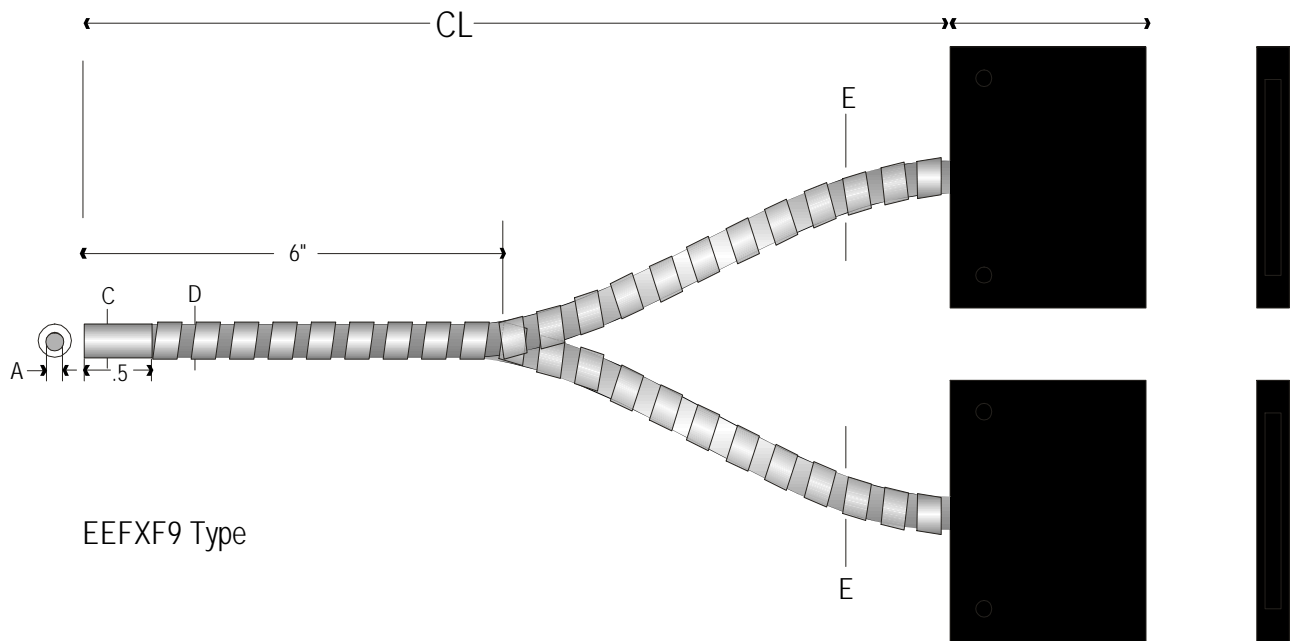
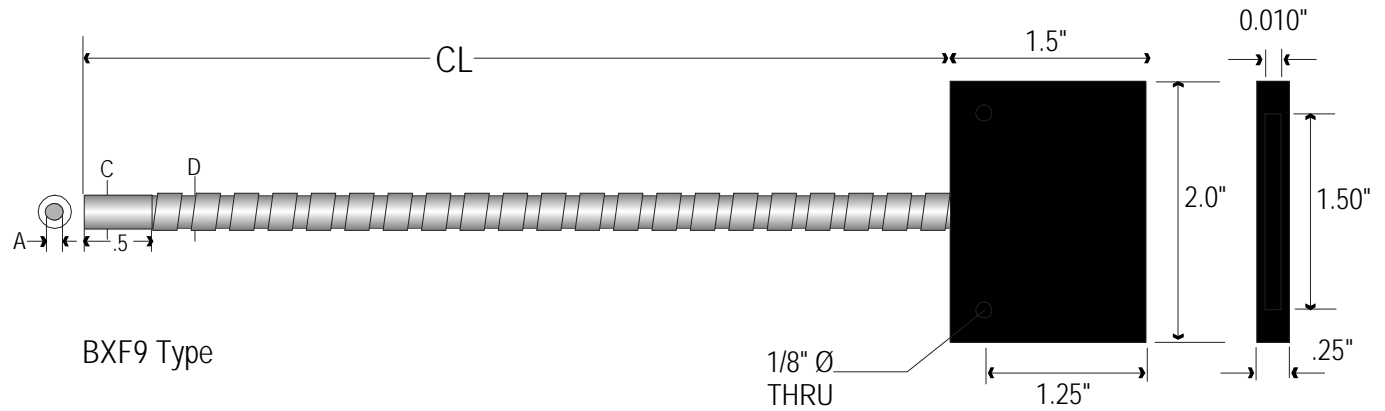
ALL DIMENSIONS IN INCHES



**LINE LIGHT CONFIGURATIONS**

Mechanical Specifications

*BFX9 & EEFX9: Single and dual head line lights in epoxy encapsulated housing. The glass fibers are sheathed in stainless steel armor jacket.*



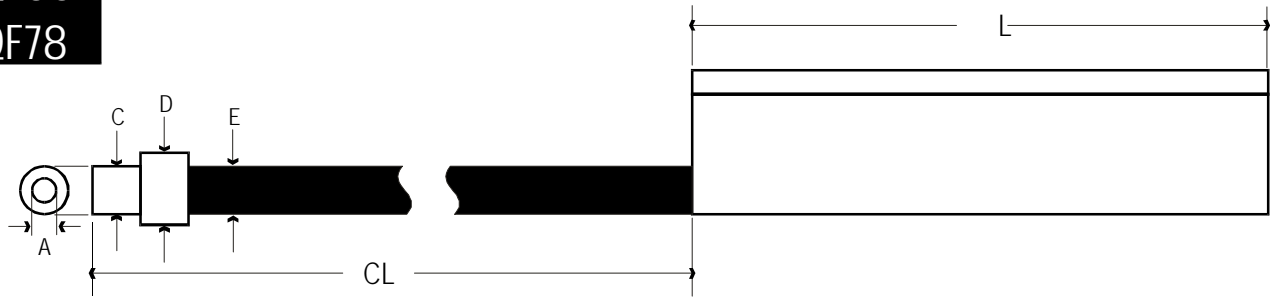
CATALOG #	"CL"	AO	Active Area	C	D	E	ADAPTERS	
							A-Type	B-Type
BFX9	48"/72"	0.138"	1.5" x 0.010"	.187"		.306"	SX-5	SX-5B
EEFX9	45"/72"	0.195"	1.5" x 0.010"	.312"	.922"	.306"	SX-6	SX-6B

**LINE LIGHT CONFIGURATIONS**

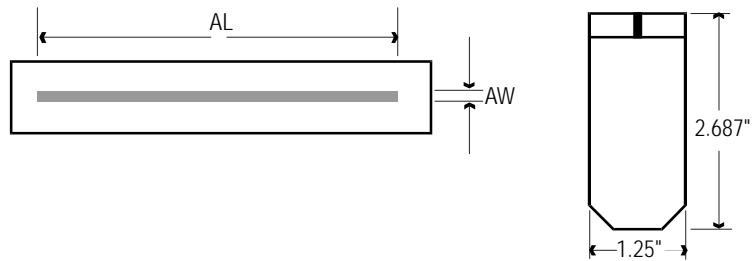
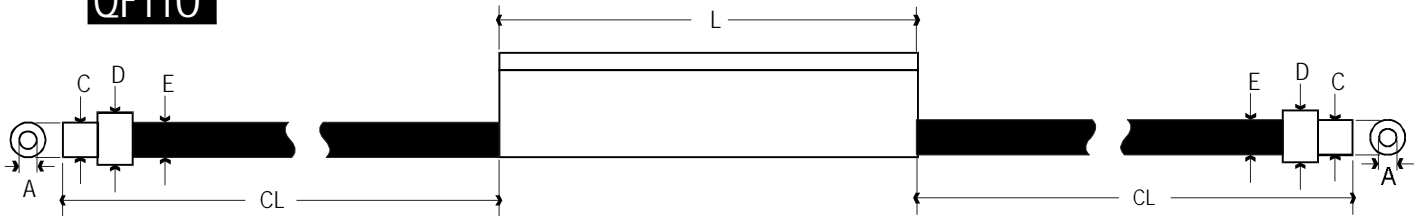
Mechanical Specifications

*Extruded aluminum housing. Glass fiber sheathed in flexible PVC covered steel monocoil.*

**QF55  
QF78**



**QF96  
QF110**



CATALOG #	"CL"	A Diam.	AL	AW	L	C	D	E
QF55	48"/72"	.550"	12"	.020"	14.31"	.995"	1.5"	1.25"
QF78	48"/72"	.760"	24"	.020"	26.31"	.995"	1.5"	1.25"
QF96	48"/72"	.679"	36"	.020"	38.31"	.995"	1.5"	1.25"
QF110	48"/72"	.778"	48"	.020"	50.3"	.995"	1.5"	1.25"