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# FLEXIBLE

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# LASER LINK

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Laser Mechanisms' Flexible Laser Link (FLL) is an opto-mechanical solution for delivering multiple laser wavelengths through the same device.

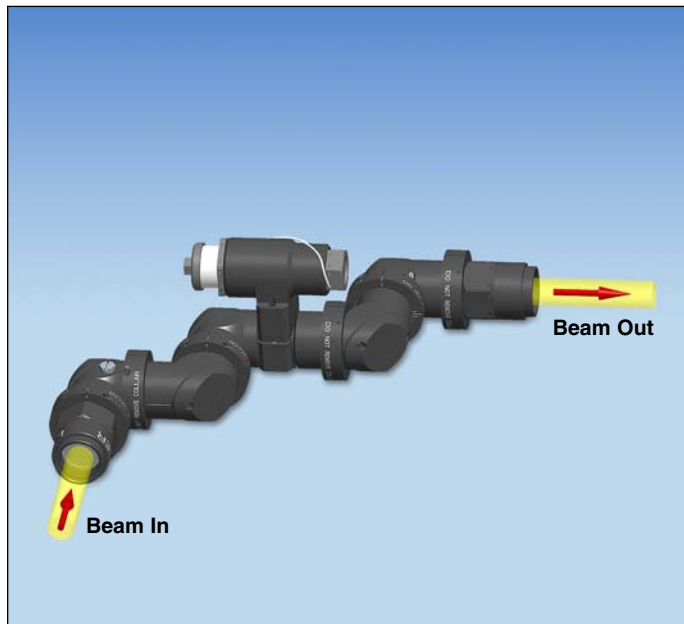
The purpose of the FLL is to form the link between the laser system and the Scanner, Sensor Head, Illumination System or other special device. The flexibility of the FLL will allow for mechanical variations in the installed configuration between the laser and coupled device.

Primarily designed and validated for military land-based vehicles and airframes, the FLL eliminates multiple delivery systems and combines them into one flexible unit. The FLL is engineered to minimize weight, number of components, installation complexity and field maintenance.

The FLL is easily serviced using standard available tools. A desiccant breather valve maintains low pressure differ-



*The Flexible Laser Link is shown above in a typical military land-based vehicle configuration between the laser and coupled device.*

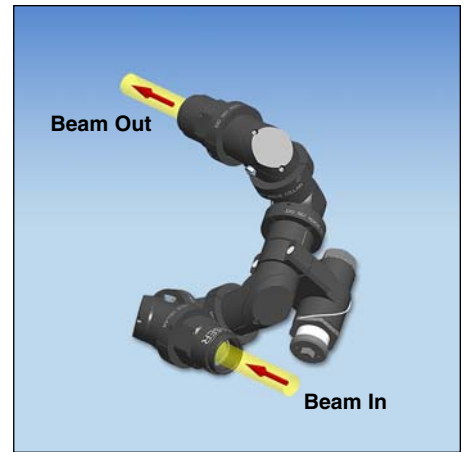
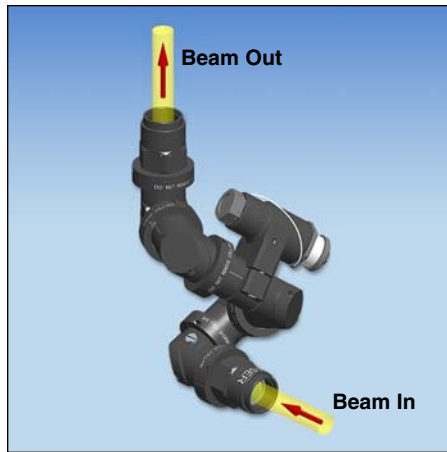
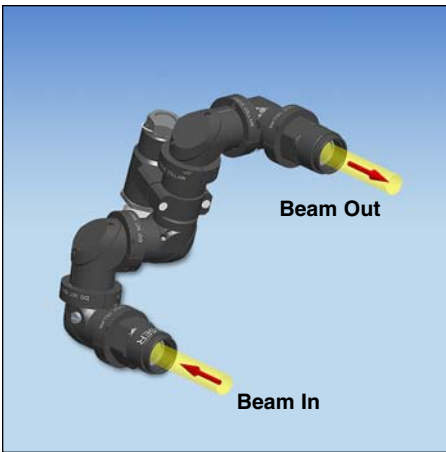


*When preserving mode quality is essential or fiber optics are not an option, the Flexible Laser Link is a proven, mil-spec alternative for either static or dynamic defense applications.*

ential between the internal pressure and atmosphere during operational use. A replaceable indicator monitors internal humidity and the condition of the desiccant. No other field service is required with the FLL.

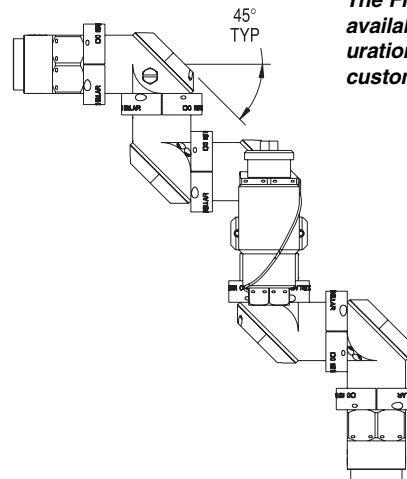
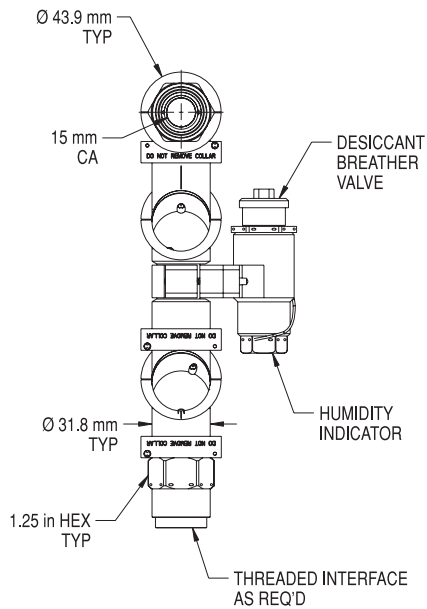
The FLL has been tested and validated to exacting military standards and has undergone acceleration, shock, thermal and vibration testing. The FLL can deliver reliable, repeatable mechanical and optical performance in any theater of operation – whether it is exposed to blowing sand, dust, rain, salt fog, humidity, icing, fluids or fuel. Environmental Stress Screening (ESS) insures that each FLL is manufactured to exacting standards.

The FLL design is sealed to eliminate any harmful contaminants during operational use and maintains immediate system readiness for use in any environment. The FLL conforms to all mil-spec standards for out gassing, mold and fungus.



The Flexible Laser Link easily articulates to direct the laser beam in almost any direction within the required working envelope.

## Dimensions



The Flexible Laser Link is available in custom configurations engineered to customer specifications.

## Specifications

Standard Clear Aperture (Others Available Upon Request)	15 mm
Angular Bias (Static Alignment)	< 0.7 mrad
Beam Center Deviation (Static Alignment)	< 0.5 mm
Operating Altitude	up to 35,000 ft
Operating Temperature	-54° C to +55° C
Non-Operating Temperature	-62° C to +71° C
Weight	1.1 kg



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February 2010