Fiber Optics

SEDI•ATI fibres optiques

LASER COMPONENTS

HERMETIC BULKHEAD FIBER-OPTIC FEEDTHROUGHS

KTRAV-M10

Hermetic Fiber Optic Feedthroughs for Vacuum and Pressure up to 600 bars

The KTRAV-M10 hermetic fiber-optic feedthroughs are suitable for vacuum and pressure applications up to 600 bars. They ensure a high level of hermeticity better than 10^{-8} mbar.l/s.

They are built with an internal fiber rod identical to the fiber used upstream and downstream.

They can be made with either singlemode [SM] fibers or multimode [MM] graded index [GI] fibers as well as step index [SI] fibers.

For fibers with a cladding diameter of 125 µm maximum, they are terminated with an FC/PC connector. For core diameters up to 1000 µm, they come with SMA termination.

Please contact us to discuss your specific requirements.

KEY FEATURES

- From vacuum to 600 bars
- 10^{-8} mbar.l/s hermeticity
- Broad wavelength range
- Single-channel
- SM or MM fibers
- FC/PC or SMA adapters

APPLICATIONS

- Vacuum
- Pressure

QUALITY

- ISO 9001:2015

As part of our policy of continuous product improvement, we reserve the right to change specifications at any time.

DTSKTRAVM10 September 2020

Germany & Other Countries
Laser Components GmbH
Tel: +49 8142 2864 – 0
Fax: +49 8142 2864 – 11
info@lasercomponents.com
www.lasercomponents.com

United Kingdom
Laser Components (UK) Ltd.
Tel: +44 1245 491 499
Fax: +44 1245 491 801
info@lasercomponents.co.uk
www.lasercomponents.co.uk

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KTRAV-M10

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HERMETIC BULKHEAD FIBER-OPTIC FEEDTHROUGHS

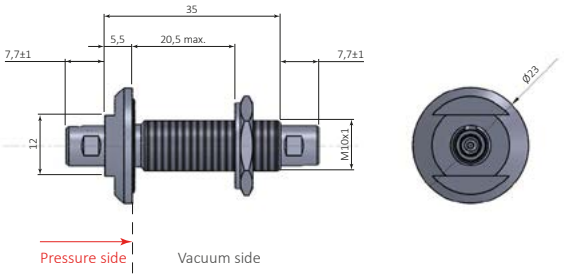
STANDARD PRODUCT SPECIFICATIONS

Parameters	KTRAV-M10	
Pressure	from vacuum to 600 bars ; depending on the fiber	
Hermeticity	10^{-8} mbar.l/s	
Sealing technology	epoxy	
Housing material	stainless steel 304L	
Panel drilling diameter	10.2 mm $^{0/+0,3}$	
Panel thickness	5 mm min.; 20.5 mm max.	
Tightening torque	7.5 Nm max.	
Operating wavelength range	200-2000 nm; depending on the fiber	
Operating temperature range	-55°C to +125°C	
Storage temperature range	-55°C to +170°C	
Adapter interface	FC/PC	SMA
Fiber type	SM MM GI 50 and 62.5 µm core MM SI with 125 µm cladding diameter	MM SI up to 1000 µm core
Insertion loss	< 1 dB max. @1300 nm (0.3 dB typ. @1300 nm on SMF28)	< 3 dB max. @850 nm (2 dB typ. @850 nm on 600 µm fiber)

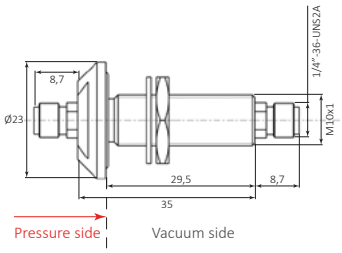
Every feedthrough is delivered with a helium leak detection test report. The helium test is realized in our facilities and is limited to 10^{-8}mbar.l/s by the test chamber.

MECHANICAL SCHEMES

FC/PC version



SMA version



ORDERING INFORMATION

Order code

KTRAV	-		-	M10	-	

connector type
FC : FC/PC
SMA : SMA905

fiber type
fiber code according to our fiber's list DOCFL

Example : KTRAV-SMA-M10-HCL600
(Fiber optic hermetic feedthrough with HCL 600/660 fibers terminated with female adapter interfaces for SMA905 connectors)

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