Fiber Optics

SEDI•ATI fibres optiques

LASER COMPONENTS

BULKHEAD ADAPTERS

K-POWER

Power Transfer

The Power Transfer is designed like an air-spaced SMA to SMA adapter for connecting two SMA-905 terminated fiber optic cables. It is directly compatible with standard SMA-905 connectors and with power SMA-905 connectors with either a standard or a free-standing fiber tip. It is ideal to connect a high power patchcord coming from a Laser source to a disposable high power pigtail or patchcord.

Provided the two connected optical fibers are identical on both sides of the Power Transfer, this device with integrated optics will maintain both the laser beam diameter and the numerical aperture between the input and the output of the component. Besides, its design properly aligns the cores of each terminated fiber end.

The Power Transfer component is operationnal on 3 different wavelength ranges from 350 nm to 1700 nm depending on the choice of the AR coating on the integrated optics.

The robust mechanics are designed for industrial and medical applications. Three different shapes are available: stand alone, with a flange, or with a hermetic sealing that ensures a 10^{-2} mbar.l/s hermeticity.

They can also be used in spectroscopy applications to improve the modal dispersion and coherence of a beam coming from a multi-fiber bundle to be connected to another bundle or to a single fiber.

Please contact us to discuss your specific requirements.

KEY FEATURES

- SMA-905 bulkhead adapter
- Stainless steel robust designs
- Different AR coatings available
- 3 different housings
- 10^{-2} mbar.l/s hermeticity available

APPLICATIONS

- Industrial
- Medical
- Spectroscopy

QUALITY

- ISO 9001:2015

DTSKPOWER May 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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STANDARD PRODUCT SPECIFICATIONS

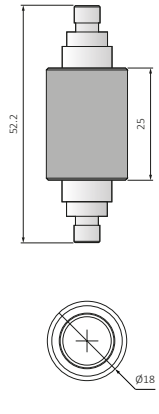
Parameters	Optical specifications		
Adapter interfaces	SMA-905 type connectors		
Operating wavelength range	UV: 350-650 nm	VIS: 600-1060 nm	IR: 1050-1700 nm
Insertion loss*	depending on the fiber; 1.6 dB typ. @850 nm on 600 µm silica/silica fiber		
Optical power handling* *(tested but not limited to)*	150 W CW @980 nm on 600 µm fiber 300 mJ pulsed > 100 ms @1060 nm on 200 µm silica/silica fiber		

**Please note that the values can vary substantially according to the customer's measurement bench set up (light source, detector...).*

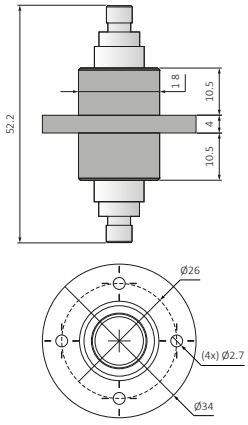
Parameters	Mechanical specifications		
Housing type	Housing 1: stand alone	Housing 2: flange	Housing 3: hermetic sealing
Housing material	Stainless steel 304L	Stainless steel 304L	Stainless steel 304L
Panel drilling diameter	NA	18.2 mm $^{0/+0.3}$	18.2 mm $^{0/+0.3}$
Hermeticity	NA	NA	10^{-2} mbar.l/s

MECHANICAL SCHEMES

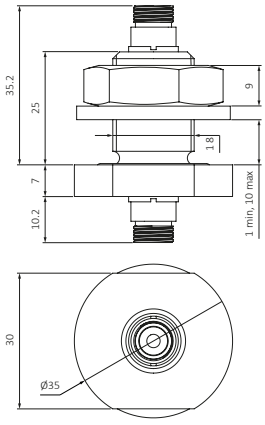
Housing 1: stand alone



Housing 2: flange



Housing 3: hermetic sealing



ORDERING INFORMATION

Order code

K-POWER	-		-	

housing style
A : stand alone
F : flange
H : hermetic sealing

wavelength range
UV : 350-650 nm
VIS : 600-1060 nm
IR : 1050-1700 nm

Example : K-POWER-F-UV
(Power Transfer with a flange for use at 350-650 nm)

Order now

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

DTSKPOWER May 2020

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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