



LU1600Ayyy Fiber Coupler



Description:

Fiber to fiber coupler for easy fiber extension with a fiber patch cord. A broken fiber on a robot arm for example can be easily exchanged. A contaminated patch cord in a medical application can be exchanged by the operator. An inductive proximity sensor is optionally provided for the output fiber. It allows to implement a laser shut down function to avoid laser operation in case of detached fiber.

Due to the broad wavelength range and wide power levels (including pulsed applications), the robust design of this 1:0.7 or 1:1 coupler suits a large number of applications.

Features:

- Wavelengths: 630 to 1600nm
- Power level: 1W to 500W (with cooling)
- Coupling 1:0.7 or 1:1
- Efficiency > 80% typically >85% with quartz non-coated fiber
- SMA 905 or D80 connector
- Not adjustable

Benefits:

- Fiber detector for safe operation
- Nickel-plated aluminium case
- Small foot print; easy to mount
- Robust design
- OEM quantity

Applications:

- Fiber exchangeability or Fiber extension in:
- Medical System
 - Material Processing
 - Pumping
 - Illumination

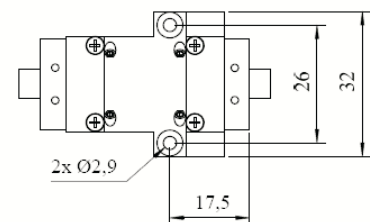
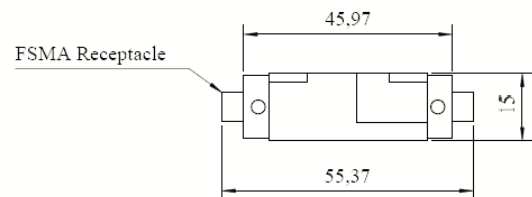
Examples for coupled Fibers:

- 1:1 Coupler
 - 200µm, NA 0.22 into 200µm, NA 0.22
 - 400µm, NA 0.22 into 400µm, NA 0.22
- 1:0.7 Coupler
 - 250µm, NA 0.15 into 200µm, NA 0.22
 - 500µm, NA 0.15 into 400µm, NA 0.22

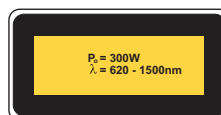
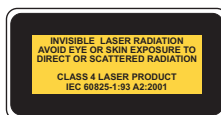
Versions:

- LU1600A100 (SMA 905)
- LU1600A300 (D80)

Module Drawing (Dimensions in mm)



User Safety



Your ideas are welcome.