



Fiber Monitoring System FMS-01

Characterictics:

- "Plug & Play" System for monitoring of:
 - Fiber breakage
 - Temperature of the connectors
- Adjustable temperature range.
- Available for all laser systems.
- Low-voltage operation.
- Error display.
- Industry proofed.

Operating principle:

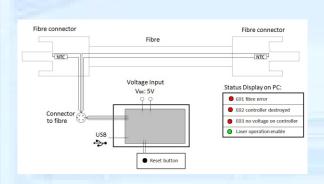
The principle is based on applying voltage at temperature-dependent resistors, which is proportional to the respective resistance. If the voltage falls below the lower or the upper limit, a relay switches, interrupting power transfer to the laser.

In monitoring of the fiber, the upper limit voltage serves to protect against fiber breakage, while the lower limit voltage bridges the contacts for connectivity.

In monitoring of the connector temperature, only the lower limit voltage is used to prevent the connector from overheating



Outer circuit:



Technical specifications:

Operating voltage 5 V DC

Control signal 5 V DC

Load-bearing capacity 10 W

Operating temperature 10 ° C bis 30 ° C

Storage temperature 50 ° C bis +70 ° C

Shutdown temperature 60 ° C bis 120 ° C

Tolerance of the shutdown ±2°C
Relay lifetime 10⁵ switching cycle
Relay switching time <7 ms



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