

Lightning Strike Monitoring System **ProLEC FO System**

The ProLEC FO lightning strike monitoring system consists of a sensor and optical electrical converter that communicate via fiber optic cable. The optical electrical converter sends data to the external device using a simple signaling protocol.



Features

- Senses a direct lightning strike to a wind turbine's Lightning protection system, LPS
- Detects lightning strikes above 2kA amplitude
- Simple mounting
- Isolated fiber optic communications - 20m optic cable included
- High voltage isolation

The user equipment receives alarms transmitted by the optical-electric converter. The system helps in optimization of operations and maintenance procedures.

SPECIFICATIONS

Lightning Strike Monitoring System ProLEC FO System



Technical Data ProLEC FO

Electrical	
ProLEC FO	
Threshold Current [I_{tc}]	2 kA
Maximum Withstand Current [I_{mwc}]	100 kA
Threshold Detection Error	+/-200A
Power Supply	Replaceable battery 3.6V (Size D) Battery Life 3 Years typical
Communication	Fiber optic

Mechanical	
Temperature Range	Sensor -40 °C to +55 °C
Environmental Ingress Protection (IP) Rating	IP 65
Housing Material of Sensor	GD-AI Si 12 (DIN 1725)
Dimensions	156 × 119 × 65 mm [6.15" × 4.7" × 2.6"]
Weight per Unit	Without Battery 1.52 lbs. [690g] With Battery 1.74 lbs. [790g]

Standards Compliance & Certifications	
Standards	EN 61326-1; EN 60068-2
Certification	RoHS, CE

Technical Data ProLEC OEC

Electrical	
ProLEC OEC	
Power Supply	DC 5-30V
Communication	communication to sensor fiber optic communication to external device see user manual appendix A

Mechanical	
Temperature Range	Sensor -40 °C to +70 °C
Environmental Ingress Protection (IP) Rating	IP 20
Housing Material of Sensor	PA (polyamide) V0 (UL94)
Dimensions	124 × 99 × 22.6 mm 4.9" × 3.9" × 0.9"
Weight per Unit	0.24 lbs. [110g]

Standards Compliance & Certifications	
Standards	EN 61326-1
Certification	RoHS, CE

Technical Data Fiber Optic Cable

Mechanical	
Fiber Optic Cable	
Cable Type	1 mm diameter, Standard POF grade
Attenuation	0.22 dB/m typical (-40°C to 85°C)
Construction	Duplex plastic fiber, with black polyethylene jacket
Flame rating	Comply with UL VW-1 flame retardant specification
Termination	Unterminated
Max. operational length	20m



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RoHS COMPLAINT  CE

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