DATA SHEET

Lightning Strike Monitoring System **ProLEC FO System**

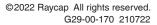
The ProLEC FO lightning strike monitoring system consists of a sensor and optical electrical converter that communicate via fiber optic cable. The optical electrical converter sends data to the external device using a simple signaling protocol.



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 opticalelectric converter. The system helps in optimization of operations and maintenance procedures.





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SPECIFICATIONS

Lightning Strike Monitoring System **ProLEC FO System**



| Electrical | | |
|---|-----------------|---|
| ProLEC FO | | |
| Threshold Current [I _{tc}] | | 2kA |
| Maximum Withstand Current [I _{mwc}] | | 100kA |
| 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-Al Si 12 (DIN 1725) |
| Dimensions | | 156×119×65mm |
| | | [6.15"×4.7"×2.6"] |
| Weight per Unit | Without Battery | 1.52 lbs. [690g] |
| | With Battery | 1.74 lbs. [790 g] |
| Standards Compliance & Certific | ations | |
| Standards | | EN 61326-1; EN 60068-2 |
| Certification | | RoHS, CE |

Technical Data ProLEC OEC

| 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 Senso | r -40 °C to +70 °C |
| Environmental Ingress Protection (IP) Rating | IP 20 |
| Housing Material of Sensor | PA (polyamide) V0 (UL94) |
| Dimensions | 124×99×22.6mm |
| | 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 |



ProLEC FO







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