

DATA SHEET ProLEC FO System



Features

- Detects direct lightning strikes to a wind turbine's Lightning Protection System (LPS)
- Capable of sensing lightning strikes with amplitudes exceeding 2kA
- Easy and simple mounting process
- Fiber optic communication with a 10-meter optic cable included, providing high-voltage isolation

Typical Installation



Technical Data

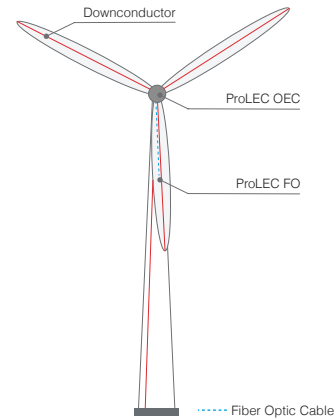
inches [mm]

Electrical		
ProLEC FO System		130 533
ProLEC FO Sensor		130 535
ProLEC FO		130 534
Impulse Discharge Current [I_{imp}]		100 kA
Minimum Impulse Discharge Current [$I_{imp min}$]		2 kA
Nominal Discharge Current [I_n]		100 kA
Minimum Nominal Discharge Current [$I_{n min}$]		2 kA
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 67
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. [690 g]
	With Battery	1.74 lbs. [790 g]
Standards Compliance & Certifications		
Standards		EN 61326-1; EN 60068-2; IEC 62561-6
EN/IEC Category		Type I, Type II
Certification		RoHS, CE

Features

- Isolated fiber optic communications - 10m optic cable
- High voltage isolation

Typical Installation



inches [mm]

Technical Data

Electrical		
ProLEC OEC		130 537
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 +55 °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. [110 g]
Standards Compliance & Certifications		
Standards		EN 61326-1
Certification		RoHS, CE

Technical Data

Mechanical	
Fiber Optic Cable	
130 536	
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

