

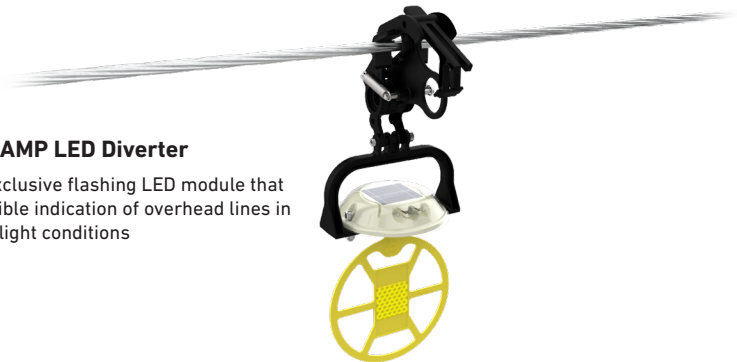
BIRD-FLIGHT Diverter

Designed to make overhead lines and guyed structures visible to birds and provides an economical means of reducing the hazard to both lines and birds



RAPTOR CLAMP Diverter

An alternative to the BIRD-FLIGHT Diverter and the SWAN-FLIGHT™ Diverter for making overhead power lines visible to birds of all sizes



RAPTOR CLAMP LED Diverter

Includes an exclusive flashing LED module that provides a visible indication of overhead lines in dark and low-light conditions

BIRD-FLIGHT™ DIVERTERS & RAPTOR CLAMP™ DIVERTERS

A Guide for Comparing Bird Diverter Options

CHARACTERISTICS

Feature Comparison	BIRD-FLIGHT™ Diverter	RAPTOR CLAMP™ Diverter	RAPTOR CLAMP™ LED Diverter
Makes overhead lines visible to birds	No moving parts = no wear of components; provided in Gray, Yellow, or Orange	Dynamic swinging motion with reflective tape for hazing effect	Dynamic swinging motion for hazing effect with white or UV flashing lights
Product Material	<ul style="list-style-type: none"> • High-impact PVC • Aluminum option for high temperature • Galvanized steel for tower guying 	UV-stabilized polycarbonate with corrosion-resistance stainless steel	UV-stabilized polycarbonate with corrosion-resistance stainless steel; sealed LED flasher unit
Installation on conductor	Helically Installed. No attachment hardware.	Spring loaded clamp - uses neoprene cushions as interface with the conductor	Spring loaded clamp - uses neoprene cushions as interface with the conductor
Installed by hand	Yes	Yes	Yes
Installed by hot stick	Yes	Yes	Yes
Robotic Installation Methods	LineFly™; reduces line worker exposure to safety hazards, multiple robots can be used simultaneously, installs BFD at precise locations	Drone installation; reduce line worker exposure to hazards, decrease installation time, install RAPTOR CLAMP Diverters at precise locations	Drone installation; reduce line worker exposure to hazards, decrease installation time, install RAPTOR CLAMP Diverters at precise locations
Optimal Recommended Installation spacing distance	15 ft intervals	15 ft intervals	15 ft intervals
Voltage Application	230 kV Three Phase	69 kV Three Phase - Testing for higher voltage application scheduled	69 kV Three Phase - Testing for higher voltage application schedule
Conductor Range	0.175" - 2.50" (4.4 - 63.5 mm)	0.100" - 1.750" (2.54 - 44.5 mm)	0.100" - 1.750" (2.54 - 44.5 mm)
Product Weight	0.010 - 0.67 lb (4.56 - 304 g)	0.4 lb (181 g)	1.10 lb (499 g)
UV Testing	To ASTM-G154 = free of cracks and no degradation after 3,000 hours	To ASTM G154-16 = free of cracks and no degradation after 2,000 hours	To ASTM G154-16 = free of cracks and no degradation after 2,000 hours (LED Unit Excluded)
UL 94 Flammability Test Results	V-0 Rating	Clamp Body - V-0 Sign and Conductor Cushions - V2	Clamp Body - V-0 Sign and Conductor Cushions - V2
Aeolian Vibration Testing	Tested at 20 million cycles	Tested at 100 million cycles	Tested at 100 million cycles
Life Expectancy (Years)	20+ based on experience	20+ based on material performance	10+ flasher battery life 20+ based on material performance



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