AVIAN FLIGHT DIVERTER - DYNAMIC AVFD-DY

WILDLIFE AND ASSET PROTECTION PRODUCTS



DYNAMIC AVIAN FLIGHT DIVERTER WITH DRONE INSTALLATION CAPABILITY AND LUMINESCENT TECHNOLOGY

APPLICATIONS

- Overhead Power Networks
- Transmission Conductor
- Distribution Conductor
- Ground Conductor

RELEVANT STANDARDS AND TESTING

- IEC 61284 - Radio Interference Voltage (RIV)
- IEEE 1656 - Clamping Functionality in High Winds
- IEC 61897 - Slip Test

KEY FEATURES

- Installable by drone, hot-stick, or hand
- RFI free up to 173 kV
- Rated for wind loads up to 110 mph (170 km/h) and resistant to snow and ice
- High-strength spring secures position on the conductor
- Up to 16 hours of long-lasting photoluminescent visibility in darkness

TE Connectivity (TE) Avian Flight Diverters - Dynamic AVFD-DY are designed to help birds see overhead lines and avoid collisions. By drawing attention to the lines earlier, large birds such as geese and swans have enough time to change direction and avoid potentially fatal consequences.

Compatible with a wide range of conductor types, with RFI testing conducted up to 173 kV, and suitable for use on ground wires regardless of system voltage classification, these diverters incorporate high-visibility mesh flaps with reflective markers made from photoluminescent material. Highly reflective during the day and glow-in-the-dark at night, they enhance avian visibility and help reduce the risk of bird collisions and related infrastructure damage.

Our AVFD-DY diverters can be installed by linesmen using a hot stick or by a drone/aerial remotely operated vehicle. These diverters fit conductors up to 50 mm (1.97 inches) in diameter and are secured with high-torsional-strength springs that provide clamping forces exceeding 100 N (22.48 lbf), ensuring they remain in place under harsh weather conditions. They are also removable for maintenance and inspection.

TECHNICAL SPECIFICATIONS

Product Description	Conductor Application Range mm (in)	Dimensions mm (in)	Weight kg (oz)	Standard Pack Size
AVFD-DY (B20)	2 - 50 (0.08 - 1.9)	280 × 175 (11 × 7)	0.33 (11.5)	20

PRODUCT PERFORMANCE

Properties	Test Method	Requirements
Radio Interference Voltage (RIV) Test	IEC 61284: 1997	162.2 µV at 173 kV Ø-Ø (Phase-Phase) 98.9 µV at 116 kV Ø-Ø (Phase-Phase) 81.3 µV at 43 kV Ø-Ø (Phase-Phase)
Slip Test	IEC 61897: 2020	145 N (32 lbf) on Ø21.6 mm (0.85 inch) OD ASCR conductor
Night Glow Time	DIN 67510-1	>16 Hrs.
Clamp Force	-	Ø20 mm - 123 N / 28 lbf Ø30 mm - 146 N / 33 lbf Ø50 mm - 168 N / 38 lbf
Cold Weather Clamp Force Retention	IEEE 1656: 2010	-35°C (-31°F)
Snow and Ice Loading	-	No adverse functional effect on unit; approx. 0.18 oz or 5 g additional load per unit.

TEST REPORT

Document Reference	Document
PPR-3828	Product Test Report

INSTALLATION INSTRUCTIONS

Document Reference	Document
PII-4522	AVFD-DY Installation Instructions

Learn more: TE.com/energy

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