IRISS VP-12-IR Series

Environmentally Sealed Wide Angle Infrared Inspection Window

Overview

The VP-12-IR's 12mm viewing area was designed for tight areas or for use with infrared (IR) cameras with smaller, wider angle lens systems. While the VP-12-IR is small in size, it is still big on features. The polymer lens material and switchgear grade plastics assures compliance by maintaining an IP67/NEMA 6 seal whether open or closed. With the smaller footprint of the VP-12-IR, it could be the answer for providing a thermographer access to more challenging areas. This will allow monitoring of equipment that would not have been possible with a larger window.

Key Features

Environmentally Sealed Design
An additional layer of protection for both the inspection window and the equipment in environments with harsher conditions.

Durable and Rugged
Polymer-based IR windows are far more able to resist the mechanical stresses of electrical and mechanical applications.

Fixed & Stable Transmission
The polymer IR window systems will maintain fixed and stable transmission (FAST) for the life of the installation.

American Made, Globally Trusted
100% conceived, designed, and built on American soil , embodying the innovation, and quality, of American manufacturing.

UL Listed
Having passed rigorous standards and testing, our inspection windows are UL Listed (E 491496).

Unconditional Lifetime Warranty
The IRISS unconditional lifetime warranty is unique in the IR industry applying to both the IR window housing and optic.

Specifications

Model	VP-12-IR
General Specifications	
Overall Dimensions	6.5 cm (2.6 in) Ø
Overall Thickness	2.6 cm (1.0 in)
IP/ NEMA Environment Rating	IP67 / NEMA 6
Operating Temperature	-40°C (-40°F) to 110°C (230°F)
Body Material	UL 94 5VA Nylon (switchgear-grade plastic); -40°C (-40°F)to 273°C (523°F); aluminum cover
Gasket Material	UL 94 5VA TPE; -40°C (-40°F) to 273°C (523°F)
Hardware Material	316 Stainless Steel
Voltage Range	Any
Automatically Grounded	Yes
Optic Specifications	
Viewing Aperture Dimensions	1.2 cm (0.5 in) Ø
Optic Material	Poly-View™ UL 746 compliant, visual, UV and IR transmissive polymer; -40°C (-40°F) to 110°C (230°F)
Inspection Capabilities and Applications	
Midwave IR and Longwave IR; Ultraviolet (UV); Ultrasound; Visual Inspection; Medium/High Voltage Applications	
Certifications	
UL Listed (E491496)	
Certified by UL (USA) & cUL (Canada) to the following standards: 50V, 50E, 756C: Impact and Flammability, 746C & 746A-2012, 1558: Impact and Load Resistance, 508A: ANSI 508A	
CSA C22.2 No. 14-13, C22.2 No. 14-10, C22.2 No. 94-M91, C22.2 No.94.1-07, C22.2 No. 94.2-07	
Lloyds of London Type Approval	
American Bureau of Shipping (ABS)	
DNV (Det Norske Veritas) P261.1E Maritime, Vessel and Offshore Applications	
IEEE C37 20.7 Type 2B, C37 20.2.a.3.6: Impact and Load	
IEEE 60980-344:2020 Seismic Qualification	
IEC 62271-200, 60262271-200,60298 Appendix A, 60068-2-6:2007, 60068-2-3, 60068-2-78:2012	
Other	
Warranty	Unconditional Lifetime Warranty

*Caution: These dimensions are not installation dimensions. Do NOT cut prior to receiving your IRISS IR window and installation template.

Specifications are subject to change without notice. For the most up-to-date specs, go to www.iriss.com

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