

AN EVOLUTIONARY STEP FORWARD

TRANSPARENT POLYMER IR WINDOW

ICI's Round IR Window series uses reinforced transmissive polymer technology to allow monitoring of energized electrical equipment in the visual, UV, shortwave, midwave, and longwave IR spectrums. The round viewing area provides clear vision of undisturbed assets without taking up the space required by larger windows. Designed with screw locking covers to protect the IR viewing panes from impacts, flying debris, and dust. Constructed from aluminum, the IR Window series has industrial grade performance, with a reinforced grill that exceeds high voltage switchgear viewing pane standards.



4" Round IR Window



DURABLE AND RUGGED

Polymer-based IR windows maintain fixed and stable transmission for life as the polymer is unaffected by environmental and mechanical stresses commonly seen with crystal based infrared windows. Features a reinforced grill that exceeds high voltage switchgear viewing pane standards.



ARC CONTAINMENT TESTED

The Round IR Window series was successfully tested to the IEC 62271-200 standard for arc containment on metal enclosed switchgear assemblies. Seamless custom gaskets ensure the NEMA 6 / IP67 ingress protection rating is maintained.



UL LISTED

Having passed rigorous standards and testing, our inspection windows are UL Listed (E491496). This demonstrates our dedication to continued safety and security in the ever-changing world of electrical power and distribution.



ICI's Round IR Window series operates in temperatures from -40 °C to 273 °C (-40 °F to 523 °F). The reinforced polymer allows thermographers to monitor completely undisturbed assets inside energized electrical cabinets. Inspection windows can be quickly installed on switchgear and MCC panel covers, as well as transformers and other electrical equipment. The windows are industrial grade with a reinforced grill that exceeds high voltage switchgear viewing pane standards.

Features

- Withstands high temperatures
- High level of safety and reliability
- Tested and certified
- Monitor undisturbed assets
- Fast and easy installation
- Locking covers

Applications

- Midwave IR (MWIR)
- Longwave IR (LWIR)
- Ultraviolet (UV)
- Visual Inspections
- Medium/High Voltage Applications

	2"	3"	4"
General Specifications			
Overall Height *	91 mm (3.6 in) ø	121 mm (4.8 in) ø	151 mm (5.95 in) ø
Overall Width *	26 mm (1.0 in)	26 mm (1.0 in)	26 mm (1.0 in)
IP Rating/ NEMA Protection	IP67 / NEMA 6		
Operation Range	-40 °C to 273 °C (-40 °F to 523 °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 to 273 °C (-40 °F to 523 °F)		
Hardware Material	316 Stainless Steel		
Voltage Range	Any		
Automatically Grounded	Yes		
Optic Specifications			
Viewing Aperture Height	51 mm (2.0 in) ø	76 mm (3.0 in) ø	102 mm (4.0 in) ø
Optic Material	Poly-View™ UL 746 compliant, visual, UV and IR transmissive polymer; -40 °C to 325 °C (-40 °F to 617 °F)		
Optic Reinforcing Grill Material	Aluminum Reinforcing Grill (IP22/ IP2x Standard)		
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			
IP67 / NEMA 6			
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			
Arc tested to IEC 62271-200 Arc Flash Spec test 1.1 Second Duration, IEC 60262271-200: 63kA, IEC 60298 Appendix: 63kA, IEEE C37.20.7 Type 2B: 63kA			

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