

Data Sheet: XLF Series Inspection Window

Why Infrared Windows?

- **Risk Control:** Opening an enclosure to perform periodic infrared scans increases risk of triggering an arc flash incident. Using inspection windows eliminates that high-risk task.
- **Safety:** *Closed-panel* IR, visual and ultrasound inspections are safer for personnel, plant assets and downstream processes.
- Standards Compliance: NFPA 70E and CSA Z462 prioritize "higher order controls" (like inspection windows) that proactively remove or reduce risk, over defaulting to PPE to protect against activities that are a known risk.
- Efficiency: Inspect more points in less time with fewer people. The closed-panel process is up to 95% more efficient than opening enclosures. Saving man-hours saves money.
- **ROI:** IR Inspection Windows typically pay for themselves within 1½ to three inspection cycles.
- Better Data: Inspect under high-load, more frequently, without background "noise" (from differential temperatures).
- Inspect the "Uninspectable:" How does your facility inspect equipment that is labeled "Dangerous" or is protected by switched interlocks? IR windows provide safe access for infrared scans of otherwise uninspectable assets. Don't let critical assets go uninspected.

IR Transmission & Accuracy:

- 57% Transmission: Exiscan™ IR windows feature advanced polymer optics capable of delivering accurate Delta T data.
- **Stable:** Optic is non-reactive with industrial environments, so transmission is stable for decades, for trendable data points.
- Better Data: Accuracy and longevity are two key benefits of Exiscan's[™] polymer optics over traditional crystals.

Monitor Electrical Equipment:

- Includes IR Window, Visual Inspection Window and Ultrasound Port
- Inspect breakers, fuses, disconnect blades, cable terminations, bus joints



Features & Options:

- **Structural Integrity:** Exiscan IR windows are overengineered for your protection. They are designed and manufactured to be stronger than the enclosures they are mounted to.
 - Rugged construction
 - Reinforced optics and mount
 - Impact resistant, load resistant, flame resistant
 - Stainless steel hardware
- Base & Cover: Machined from ½" aluminum bar stock, anodized and powder coated. (Stainless steel available.)
- **Mount:** 12 to 24 stainless steel locking screws reinforced with stainless steel plate.
- Ease of Use: XLF cover is easily opened or secured via spring release captive cover screws.
- Installation: Easy installation using skill saw, nibbler, cut-off wheel, plasma cutter, etc

Specifications:

Dimensions:

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	Aperture	IR Optic	Viewing Optic		
Measurement	<u>Length</u>	<u>Height</u>	<u>Height</u>	<u>Footprint</u>	<u>Thickness</u>
XLF-AS-05-###	5 in (127 mm)	3.75 in (95 mm)	2.5 in (64 mm)	6.25 x 9.25 in (159 x 235 mm)	0.9 in (23 mm
XLF-AS-10-###	10 in (254 mm)	3.75 in (95 mm)	2.5 in (64 mm)	12.25 x 9.25 in (311 x 235 mm)	0.9 in (23 mm
XLF-AS-15-###	15 in (381 mm)	3.75 in (95 mm)	2.5 in (64 mm)	17.25 x 9.25 in (438 x 235 mm)	0.9 in (23 mm
XLF-AS-20-###	20 in (508 mm)	3.75 in (95 mm)	2.5 in (64 mm)	22.25 x 9.25 in (565 x 235 mm)	0.9 in (23 mm
aterials & Finish:					
Body				ed, powder coated (stainless s	teel available)
Finger Guard	Stainless steel, powder coated				
IR Optic		y transmissive po			
Viewing Optic				ant, incl. Scratch-Off™ protecti	ve layers
Cover		steel, passivated			
Cover Screws	Stainless	steel knurled grip	around Phillips	head screw, captive and sprur	ng
Mounting Hardware	Stainless	steel screws treat	ted with thread-le	ocking patch	
Reinforcement Plate	Stainless	steel			
Gaskets (base & cov	ver) Silicone, c	losed cell			
ompatibility & Opera					
IR Transmission				d longwave IR cameras (3μm t	
Environmental				broad spectrum of acids/alka	lis
Temperature	Operating	Temperature -40	⁰F (-40°C) to 30	0°F (150°C)	
tandards / Testing /C	ertifications:				
	V, 50, 508 (incl. 7	46C, 90V, etc.)			\frown
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Example: XLF-AS-15-KFD = 15" Multi-Inspection Window, aluminum base, stainless steel cover with knurled cover screws on a full cover, opening downward