Optical Flame Detection Accessories

Maximize on-site flame detector performance

Hazardous industrial job sites often include challenging environmental conditions that will compromise optical flame detector performance due to the effects of:

• Airborne contaminants such as dirt, grease, and oil that can settle on optics

• Condensation, freezing rain, snow, and spider webs in some outdoor installations

• Paint, powder, and other materials common in paint/powder coating operations

Engineered optics protection accessories are designed especially for MSA flame detectors and are recommended in any dirty, wet, or remote location where proactive protection of your flame detector's optical surfaces is a requirement for proper operation and protection.

Our optics protection accessories are easy to install, maintain, and optimize flame detector performance while reducing cleaning and maintenance costs by proactively keeping your detector optical surfaces clean and free of contamination

Rain Guard Visor – FL5000/FL4000H

Helps protect the optical surfaces of the flame detector against the effects of rain, snow, and other contaminants and is easily attached to the front barrel of the flame detector using a stainless-steel hose clamp. The visor is constructed of Noryl™ plastic and has no effect on detector field of view. It's designed for easy installation, adjustment, and removal when required.

Part No. **712006-1**	Rain Guard Visor

Rain Guard Visor – FL500

Helps protect the optical surfaces of the FL500 flame detector against the effects of rain, snow, and other contaminants and is easily attached to the front barrel of the flame detector using a stainless-steel hose clamp. The visor is constructed of Noryl plastic and has no effect on detector horizontal field of view, while vertical will be reduced (see user manual for details). This accessory uses an efficient design that allows easy installation, adjustment, and removal when required.

Part No. **10236202**	Rain Guard Visor

SAFEGUARDING PEOPLE, PLACES & THE PLANET.

Compressed Air Curtain – FL4000H/FL5000

The FL4 Compressed Air Curtain accessory is an engineered accessory that protects the optical surfaces of your General Monitors FL4000H/ FL5000/FlameGard 5 MSIR flame detector. It uses positive air pressure to create a protective air curtain that prevents contaminants from settling on to the detector's optical surfaces. The FL4 Air Curtain is constructed of Nylon 12 plastic and is attached to the front barrel of the flame detector using a stainless-steel hose clamp. The FL4 is provided with a quick-disconnect, push-in plastic tubing fitting that accepts 0.25-inch diameter flexible compressed air tubing. The FL4 has no effect on detector field of view and is easily installed and removed when required.

Note: For proper operation, a source of clean, dry compressed air, pressure regulator/filter, and flexible compressed air tubing is required for installation along with the FL4 Compressed Air Curtain accessory.

Ancillary Equipment Required: Air compressor, flexible ¼' o.d. tubing, filter/regulator per curtain accessory

Compressed Air Requirements: Inlet pressure: 40 psi at 6-14 scfm per curtain location.

Recommended Usage: Paint Spray, Powder Coating booth applications, Foundries, and any critical environment with high levels of airborne contamination and/or infrequent maintenance.

Part No. **712880-1**	Compressed Air Curtain

FL5000 Upgrade Kit

The FL5000 has the same footprint as the FL4000H/FlameGard 5 MSIR Flame Detector for easy upgrade. No need to run new conduit or pour new seals on your detector. It also uses the existing bracket (P/N 71370-1).

By simply removing the FL4000H optical housing and the wiring from the FL4000H relay board, you can then use the FL5000 Upgrade kit to retrofit your FL4000H flame detector to the new features of the FL5000 flame detector. Be sure to check your electrical specifications to ensure that the FL5000 adheres to all of the demands of the existing installation, such as max power output and max wiring distance.

Part No. **10242703**	FL5000 Upgrade Kit

TL105 Handheld Test Lamp

The TL105 is a re-chargeable battery optical flame detector test lamp specifically designed to test General Monitors and MSA UV, UV/IR and Multi-Spectrum IR flame detectors. The TL105 is a broadband radiation source that emits sufficient energy in both the ultraviolet and infrared spectra to activate UV and/or IR detectors. The TL105 will flash at various selectable rates, and a rotary switch is used to configure the TL105 for use with different model flame detectors. Positions of the rotary switch for each of these detectors are labeled next to the rotary switch inside the lamp. The TL105 test lamp is powered by a 12V rechargeable battery and should be docked with its battery charger on when it is not being used. Typical test range is from 10-35 feet from a detector depending upon sensitivity settings, battery charge level, and optics cleanliness level.

Part No. **TL105-1-1**	TL105 Handheld Test Lamp

Window Cleaning Solution

For maximum clarity and integrity, use genuine MSA window cleaning solution part number 10272-1. This is an 8 fluid ounce bottle of factory provided window cleaning solution. It can be used to clean the sapphire window of any MSA flame detector and should also be used to clean the COPM reflector.

Part No. **10272-1**	Window Cleaning Solution

MSA operates in over 40 countries worldwide. To find an MSA office near you, please visit **MSAsafety.com/offices**.