


# Fuel Tanker Overfill Detection

## FloTech API Optic 5 Wire Overfill Detection Systems

Application:	The FloTech API Optic 5 wire system is perfectly suited for both new and existing tank installations. The components have a long list of features which make them more reliable than competitor products; the result is years of trouble free service. The FloTech API Optic 5 wire system is a conventionally wired system, which requires wiring connections to be made using crimp connectors. If a simple plug together system is desired, please see our Checkmate Plug-n-Play system as shown on pages 36 - 40.
Standards:	Compatible with the Scully brand 5 wire optic system. The components are drop-in replacements and compatible with the signal format required by Scully brand API Optic 5 wire on-board monitors.
Materials:	Dependent upon the component, see each product section for materials
Features & Benefits:	<ul style="list-style-type: none"> <li>• See the features and benefits of each of the system components</li> <li>• Biofuel compatible up to E100 (100% Ethanol) and B100 (100% bio diesel) </li> </ul>

### FloTech API Optic Overfill 5 Wire Systems (Top Detection Only)



#### Features and Benefits:

- FloTech brand overfill system kits provide everything needed to install a new overfill system on your tank. One to six compartment kits are available from our inventory. Systems include: 1 FT103 monitor, 1 FT101 overfill sensor per compartment, FT400 cable and FT402 strain reliefs (cable glands).
- Other probe lengths are available

Part #	Description
<b>FT1001</b>	API optic 5 wire, 1 compartment overfill detection system (top only)
<b>FT1002</b>	API optic 5 wire, 2 compartment overfill detection system (top only)
<b>FT1003</b>	API optic 5 wire, 3 compartment overfill detection system (top only)
<b>FT1004</b>	API optic 5 wire, 4 compartment overfill detection system (top only)
<b>FT1005</b>	API optic 5 wire, 5 compartment overfill detection system (top only)
<b>FT1006</b>	API optic 5 wire, 6 compartment overfill detection system (top only)
<b>FT1001-12</b>	API optic 5 wire, 1 compartment overfill detection system (top only) - 12" probes
<b>FT1002-12</b>	API optic 5 wire, 2 compartment overfill detection system (top only) - 12" probes
<b>FT1003-12</b>	API optic 5 wire, 3 compartment overfill detection system (top only) - 12" probes
<b>FT1004-12</b>	API optic 5 wire, 4 compartment overfill detection system (top only) - 12" probes
<b>FT1005-12</b>	API optic 5 wire, 5 compartment overfill detection system (top only) - 12" probes
<b>FT1006-12</b>	API optic 5 wire, 6 compartment overfill detection system (top only) - 12" probes

Please refer to chart on pages 58 - 62 for cross references to other manufacturer part numbers.

Product instruction sheets and technical data can be viewed on our website at [dixonbayco.com](http://dixonbayco.com) by selecting the "Resources" menu

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# Fuel Tanker Overfill Detection

## FloTech API Optic 5 Wire System Onboard Monitor



### Features and Benefits:

- Stainless steel terminal blocks resist rusting of contacts
- Stainless steel hardware is used on all products
- Powder coated color matched components for exceptional appearance
- Drop-in compatibility with competitors products, see compatibility chart on pages 58 - 62.
- Signal translation ability, allows the connection all socket types (optic, thermistor or float). The system offers true load at any rack compatibility.

Part #	Description
<b>FT103</b>	FloTech API Optic 5 wire monitor and housing
<b>FT102</b>	FloTech API Optic 5 wire replacement monitor only (no housing)

See page 136 for repair kits and replacement parts

## FloTech API Optic 5 Wire Overfill Detection System Overfill Sensors



### Features and Benefits:

- The FloTech API optic 5 wire probe is electronically and mechanically compatible for drop-in replacement of other commonly used 5 wire probes.
- Custom probe lengths available upon request
- The sensor housing contains a 5 wire probe, in a cast aluminum housing. The sensor housing has a 2" NPT mounting thread, heavy duty stainless steel hardware, and FKM probe seal. Install into either a 2" NPT threaded port or 2-3/8" diameter tank opening using the gasket and locking nut provided.

Part #	Description
<b>FT101</b>	Housing with 7" - 5 wire overfill detection probe
<b>FT101-12</b>	Housing with 12" - 5 wire overfill detection probe
<b>FT101-18</b>	Housing with 18" - 5 wire overfill detection probe

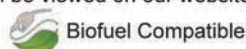
### Replacement Probes

Part #	Description
<b>FT100</b>	Replacement 7" - 5 wire overfill detection probe
<b>FT100-12</b>	Replacement 12" - 5 wire overfill detection probe
<b>FT100-18</b>	Replacement 18" - 5 wire overfill detection probe

See page 134 for repair kits and replacement parts.

Please refer to chart on pages 58 - 62 for cross references to other manufacturer part numbers.

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# Fuel Tanker Overfill Detection

## Stainless Steel Black and White 2 Wire Probes and Sensor Housings



### Features and Benefits:

- The FloTech stainless steel probes and sensor housings are designed to be used with chemicals. All wetted services are 316 stainless or PTFE. These probes are designed to thread onto a DOT 407 tank 3" clean out nipple. Sensor length can be adjusted using 3/4" NPT pipe nipples.
- All FloTech brand probes are trouble free probes, they come with a unique dual elastomer seal for the glass optic prisms. The elastomer seals are flexible allowing thermal expansion and resistance to steam cleaning and temperature changes, along with resistance to petroleum chemical attack. The replacement probes have a smooth tapered tip design for easy replacement installation into the sensor housing without gasket damage.
- Custom probe lengths available upon request

Part #	Description
<b>FT150S</b>	7" 316 stainless steel-black and white 2 wire, overfill detection probe only (no housing)
<b>FT191S</b>	Stainless steel probe housing. 3" female NPS thread (housing only, order probe separately)

See page 128 for repair kits and replacement parts.

## Stainless Steel 5 Wire Probes and Sensor Housings



### Features and Benefits:

- The FloTech stainless steel probes and sensor housings are designed to be used with chemicals. All wetted services are 316 stainless or PTFE. These probes are designed to thread onto a DOT 407 tank 3" clean out nipple. Sensor length can be adjusted using 3/4" NPT pipe nipples.
- All FloTech brand probes are trouble free probes: they come with a unique dual elastomer seal for the glass optic prisms. The elastomer seals are flexible allowing thermal expansion and resistance to steam cleaning and temperature changes, along with resistance to petroleum chemical attack. The replacement probes have a smooth tapered tip design for easy replacement installation into the sensor housing without gasket damage.
- Custom probe lengths available upon request

Part #	Description
<b>FT100S</b>	7" 316 stainless steel 5 wire overfill detection probe only (no housing)
<b>FT191S</b>	Stainless steel probe housing, 3" female NPS thread (housing only, order probe separately)

See page 128 for repair kits and replacement parts.

Product instruction sheets and technical data can be viewed on our website at [dixonbayco.com](http://dixonbayco.com) by selecting the "Resources" menu

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