

## LLF70 SERIES

COMPACT, EXTERNAL FITTING, LOW LEVEL, LOW S.G. FLOAT SWITCH



The LLF70 series is designed for fitting through a tank wall from the outside, where access to the inside for fitting is not possible.

These devices are particularly suitable for detecting low levels of liquids in the bottom of tanks and containers, and for lower SG liquids. Typical applications include vending machines, commercial dishwashers and auxiliary tanks on vehicles.

These are manufactured in a variety of plastics, with a choice of gasket materials, to suit most commonly used liquids.

The switch action may be reversed by mounting the device with the float able to move upwards away from the body, instead of the more normal downwards direction.

Available with either flying leads or M12 socket for electrical connection. Cable sets with M12 plugs are also available.

Custom versions can be made for particular applications. Please contact Sensata with your requirements.

### Features

- Suitable for low specific gravity liquids (0.7 S.G.)
- Very low level sensing
- Class leading compact design
- Compression seal fitting
- Flying Lead or M12 plug connection
- Available in Nylon, Polypropylene, PPS or PVDF
- 25VA & 100VA versions
- Many variants are UL recognised components File No. E171218
- Many variants have WRAS and/or UL approval

## SPECIFICATIONS

### Technical

	LLF73	LLF74	LLF78	LLF76	LLF77
<b>Material</b>	Nylon	Polypropylene WRAS approved	Polypropylene UL approved	Polyphenylene Sulphide (PPS)	Polyvinylidene Fluoride (PVDF)
<b>Colour</b>	Black	Opaque	White	Grey	Green
<b>Temp Range</b>	°C	-20/+75	-20/+100	-10/+120*	-10/+105
		°F	-4/+167	-4/+212	+14/+248*
<b>Min. Fluid SG</b>	0.7	0.7	0.7	0.7	0.7
<b>Must Close Level (SG=1)</b>	1mm	1mm	1mm	1mm	1mm
<b>Must Open Level (SG=1)</b>	10mm	10mm	10mm	10mm	10mm

\* ETFE cable needs to be selected in order to achieve the maximum temperature rating

## Electrical

		<b>25W (Y code)</b>	<b>100W (H code)</b>
<b>Contact Form</b>		N/O (N/C)	N/O (N/C)
<b>Switching Power Max</b>	VA	25	100
<b>Switching Voltage AC Max</b>	V	240	300
<b>Switching Voltage DC Max</b>	V	120	300
<b>Switching Current Max</b>	A	0.6	1

All ratings are for resistive load only.

## STANDARD PARTS

	<b>Material</b>	<b>Max Power</b>	<b>Leadouts</b>	<b>Gasket</b>	<b>Approvals</b>
<b>LLF73H100RN</b>	Nylon	100VA	100cm PVC 16/0.2	Nitrile	WRAS
<b>LLF73Y100RN</b>	Nylon	25VA	100cm PVC 16/0.2	Nitrile	WRAS
<b>LLF73Y100RM</b>	Nylon	25VA	100cm PVC 16/0.2	Silicone	WRAS
<b>LLF74H100RN</b>	Polypropylene	100VA	100cm PVC 16/0.2	Nitrile	WRAS
<b>LLF74Y100RN</b>	Polypropylene	25VA	100cm PVC 16/0.2	Nitrile	WRAS
<b>LLF74Y100RM</b>	Polypropylene	25VA	100cm PVC 16/0.2	Silicone	WRAS
<b>LLF76H100RN</b>	PPS	100VA	100cm PVC 16/0.2	Nitrile	WRAS & UL
<b>LLF76Y100RN</b>	PPS	25VA	100cm PVC 16/0.2	Nitrile	WRAS & UL
<b>LLF77Y100GN</b>	PVDF	25VA	100cm PTFE 7/0.2	Nitrile	UL
<b>LLF77H100GN</b>	PVDF	100VA	100cm PTFE 7/0.2	Nitrile	UL
<b>LLF77Y100GV</b>	PVDF	25VA	100cm PTFE 7/0.2	Viton	UL
<b>LLF77H100GV</b>	PVDF	100VA	100cm PTFE 7/0.2	Viton	UL
<b>LLF78H100RN</b>	PP (UL)	100VA	100cm PVC 16/0.2	Nitrile	UL
<b>LLF78Y100RN</b>	PP (UL)	25VA	100cm PVC 16/0.2	Nitrile	UL
<b>LLF73HNP</b>	Nylon	100VA	M12 connection	Nitrile	WRAS
<b>LLF73YNP</b>	Nylon	25VA	M12 connection	Nitrile	WRAS
<b>LLF74HNP</b>	Polypropylene	100VA	M12 connection	Nitrile	WRAS
<b>LLF74YNP</b>	Polypropylene	25VA	M12 connection	Nitrile	WRAS
<b>LLF76HNP</b>	PPS	100VA	M12 connection	Nitrile	WRAS & UL
<b>LLF76YNP</b>	PPS	25VA	M12 connection	Nitrile	WRAS & UL
<b>LLF77HNP</b>	PVDF	100VA	M12 connection	Nitrile	UL
<b>LLF77YNP</b>	PVDF	25VA	M12 connection	Nitrile	UL
<b>LLF77HVP</b>	PVDF	100VA	M12 connection	Viton	UL
<b>LLF77YVP</b>	PVDF	25VA	M12 connection	Viton	UL
<b>LLF78HNP</b>	PP (UL)	100VA	M12 connection	Nitrile	UL
<b>LLF78YNP</b>	PP (UL)	25VA	M12 connection	Nitrile	UL