

LeakFilm SPECIFICATIONS

Liquid Leak Detection



Specifications - Sensor					
Product Name	LeakFilm Conductive	LeakFilm Conductive_D	LeakFilm Chemical	LeakFilm Hydrocarbon	
Target	Water and conductive liquid	Water and conductive liquid	Sulfuric acid, Hydrofluoric acid, Nitric acid	Liquid organic solvent	
Material	PET	PET	PET	PET	
Circuit Thickness	5 to 10 µm	5 to 10 µm	5 to 10 µm	5 to 10 µm	
Film Thickness	Base Film 120 to 200 µm Cover Film 100 to 200 µm	Base Film 120 to 200 µm Cover Film 100 to 200 µm	Base Film 120 to 200 µm Cover Film 100 to 200 µm	Base Film 120 to 200 µm Cover Film 100 to 200 µm	
Connector Material	PBT	PBT	PBT	PBT	
Storage Temperature	14 to 176 °F (-10 to 80 °C)	14 to 176 °F (-10 to 80 °C)	14 to 176 °F (-10 to 80 °C)	14 to 140 °F (-10 to 60 °C)	
Operating Temperature	14 to 131 °F (-10 to 55 °C)	14 to 131 °F (-10 to 55 °C)	14 to 131 °F (-10 to 55 °C)	14 to 131 °F (-10 to 55 °C)	
Operating Humidity	5 to 85 %RH	5 to 85 %RH	5 to 85 %RH	5 to 85 %RH	
Weight	Under 0.7 oz/ft (20 g/m)	Under 0.7 oz/ft (20 g/m)	Under 0.7 oz/ft (20 g/m)	Under 0.7 oz/ft (20 g/m)	
Response Time for Leakage*	Under 4 sec	Under 4 sec	Under 10 sec	Toluene: under 1min Benzene: under 1min Gasoline: under 1min Diesel: under 5min Kerosene: under 5min Chloroform: under 1min	
Response Time for Open	Under 4 sec	Under 10 sec	Under 10 sec	Under 17sec	
Leak Location Accuracy	N/A	±3.2 ft (above 32.8 ft) ±1 m (above 10 m)	±3.2 ft (above 32.8 ft) ±1 m (above 10 m)	N/A	
Length	1.6 to 164 ft (0.5 m to 50 m)	9.8 to 656 ft (3 m to 200 m)	9.8 to 656 ft (3 m to 200 m)	1.6 to 164 ft (0.5 m to 50 m)	
Specifications - Controller					
Product Name	LeakFilm Mini	LeakFilm 5	LeakFilm Pro	LeakFilm HC	LeakFilm MC
Applicable Sensor	LeakFilm Conductive	LeakFilm Conductive	LeakFilm Conductive_D LeakFilm Chemical	LeakFilm Hydrocarbon	N/A
Applicable Controller	N/A	N/A	N/A	N/A	LeakFilm Pro, LeakFilm 5, LeakFilm HC
Display	N/A	N/A	8 X 2 Character LCD / LED back light	8 X 2 Character LCD / LED back light	20 X 4 Character LCD / LED back light
Power	20 to 36 VDC	20 to 36 VDC	20 to 36 VDC	20 to 36 VDC	100 to 240 VAC 50/60 Hz
Power Consumption	Max 1 Watt	Max 4 Watt	Max 4 Watt	Max 4 Watt	Max 10 Watt
LED Indication	Green - Power On Yellow - Fault Red - Leak	Green - Power On Yellow - Fault Red - Leak	Green - Power On Yellow - Fault Red - Leak	Green - Power On Yellow - Fault Red - Leak	Green - Power On Yellow - Fault Red - Leak
Sound Level	Over 80dB @ 3.9" (10 cm)	Over 80dB @ 3.9" (10 cm)	Over 80dB @ 3.9" (10 cm)	Over 80dB @ 3.9" (10 cm)	Over 80dB @ 3.9" (10 cm)
Output	Relay (NO) 30 VDC 2A, or 250 VAC 0.5A	Relay (NO) 30 VDC 2A, or 250 VAC 0.5A	Relay (NC, NO) 24 VDC 2A or 120 VAC 1A (Max. Switching voltage 60 VDC or 240 VAC)	Relay (NC, NO) 24 VDC 2A or 120 VAC 1A (Max. Switching voltage 60 VDC or 240 VAC)	Relay (NC, NO) 24 VDC 2A or 120 VAC 1A (Max. Switching voltage 60 VDC or 240 VAC) LEAK Relay (NC, NO) BROKEN Relay (NC, NO) Com Err Relay (NC, NO)
Communication	N/A	RS485 (**Modbus®)	RS485 (**Modbus®)	RS485 (**Modbus®)	RS485 (**Modbus®)
Communication Function (Status Transmission)	N/A	<ul style="list-style-type: none"> Leak Detection Leak Clearance Broken Detection Broken Clearance 	<ul style="list-style-type: none"> Leak Detection Leak Location Leak Clearance Broken Detection Broken Clearance 	<ul style="list-style-type: none"> Leak Detection Leak Clearance Broken Detection Broken Clearance 	<ul style="list-style-type: none"> Leak Detection Leak Location Leak Clearance Broken Detection Broken Clearance Communication Error and Clearance
Data Recording	N/A	N/A	9 event - year / month / day / hour / min / Leak location	9 event - year / month / day / hour / min / Leak or Broken message	999 event - Detector ID / Leak and Leak location or Broken or Communication error/ year - month - day hour : min : sec /
Storage Temperature	14 to 149 °F (-10 to 65 °C)	14 to 149 °F (-10 to 65 °C)	14 to 149 °F (-10 to 65 °C)	14 to 149 °F (-10 to 65 °C)	14 to 149 °F (-10 to 65 °C)
Operating Temperature	14 to 131 °F (-10 to 55 °C)	14 to 131 °F (-10 to 55 °C)	14 to 131 °F (-10 to 55 °C)	14 to 131 °F (-10 to 55 °C)	14 to 131 °F (-10 to 55 °C)
Operating Humidity	5 to 85 %RH	5 to 85 %RH	5 to 85 %RH	5 to 85 %RH	5 to 85 %RH
Leak Location Accuracy	N/A	N/A	±1 m (above 10 meter)	N/A	N/A
ID Setting	N/A	1 to 15	1 to 200	1 to 200	1 to 32
IP Rating	IP20	IP20	IP20	IP20	IP43
EMC Directive 2004/108/EC	EN61000-6-4/A1:2011, EN61000-6-2:2005, EN61000-3-2/A2:2009, EN61000-3-3:2008	EN61000-6-4/A1:2011, EN61000-6-2:2005, EN61000-3-2/A2:2009, EN61000-3-3:2008	EN61000-6-4/A1:2011, EN61000-6-2:2005, EN61000-3-2/A2:2009, EN61000-3-3:2008	EN61000-6-4/A1:2011, EN61000-6-2:2005, EN61000-3-2/A2:2009, EN61000-3-3:2008	EN61000-6-4/A1:2011, EN61000-6-2:2005, EN61000-3-2/A2:2009, EN61000-3-3:2008
Low Voltage Directive 2006/95/EC	EN61010-1:2010	EN61010-1:2010	EN61010-1:2010	EN61010-1:2010	EN61010-1:2010

* Typical response time at 68° F (20° C).

** To use the digital communication, please contact a Honeywell Analytics Service Representative for further details.

Order Information

1. LeakFilm Controller

Part Number	Product Name	Description
HLFC1MNN	LeakFilm Mini	1 Channel Mini Conductive Controller with Broken Sensor Detection
HLFC5CRN	LeakFilm 5	5 Channel Conductive Controller with Broken Sensor Detection
HLFC1HRN	LeakFilm HC	1 Channel Hydrocarbon Controller with Broken Sensor Detection
HLFC1DRD	LeakFilm Pro	1 Channel Conductive & Chemical Controller with Leak Location Detection
HLFCMSRD	LeakFilm MC	Master Controller with RS485

2. LeakFilm Sensor

Part Number	Product Name	Description
HLFSSCNN-100	LeakFilm Conductive	328 ft (100 m) Conductive Sensor
HLFSSCNN-050		164 ft (50 m) Conductive Sensor
HLFSSCNN-001		Custom Length Conductive Sensor (per m)
HLFSSCND-100	LeakFilm Conductive_D	328 ft (100 m) Conductive Sensor with Leak Location Detection
HLFSSCND-050		164 ft (50 m) Conductive Sensor with Leak Location Detection
HLFSSCND-001		Custom Length Conductive Sensor with Leak Location Detection (per m)
HLFSSAND-100	LeakFilm Chemical	328 ft (100 m) Chemical Sensor with Leak Location Detection
HLFSSAND-050		164 ft (50 m) Chemical Sensor with Leak Location Detection
HLFSSAND-001		Custom Length Chemical Sensor with Leak Location Detection (per m)
HLFSSHNN-100	LeakFilm Hydrocarbon	328 ft (100 m) Hydrocarbon Sensor
HLFSSHNN-050		164 ft (50 m) Hydrocarbon Sensor
HLFSSHNN-020		65 ft (20 m) Hydrocarbon Sensor
HLFSSHNN-001		Custom Length Hydrocarbon Sensor (per m)

3. LeakFilm Connector

Part Number	Product Name	Description
HLFNCSND-005	Start Connector	Start Connector with 5 meters Lead Wire
HLFNCJND-000	Jump Connector	Jump Connector with 15 cm Lead Wire
HLFNCJND-001	Jump Connector	Jump Connector with 1 meter Lead Wire
HLFNCLND-000	Elbow Connector	Elbow Connector
HLFNCEND-000	End Connector 4 Lines	End Connector 4 Lines with Leak Location Detection
HLFNCENN-000	End Connector 2 Lines	End Connector 2 Lines

Configuration Rules

Master Controller	LeakFilm MC	Leak Film MC	Leak Film MC	
Controller	LeakFilm Pro	LeakFilm HC	LeakFilm 5	LeakFilm Mini
Sensor	LeakFilm Conductive_D LeakFilm Chemical	LeakFilm Hydrocarbon	LeakFilm Conductive	LeakFilm Conductive
End Connector	End Connector 4 Lines	End Connector 4 Lines	End Connector 2 Lines	End Connector 2 Lines
Other Connectors	Start Connector Jump Connector Elbow Connector	Start Connector Jump Connector Elbow Connector	Start Connector Jump Connector Elbow Connector	Start Connector Jump Connector Elbow Connector



Thank you for reading this data sheet.

For pricing or for further information, please contact us at our UK Office, using the details below.



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Please note - Product designs and specifications are subject to change without notice. The user is responsible for determining the suitability of this product.