NEW

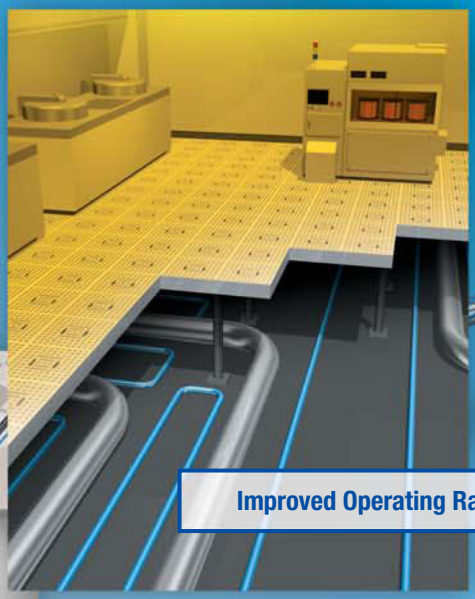
OMRON

K7L-UP-FLK

Liquid Leakage Position Sensor

System Maintenance and Management

2nd-LEAK
01/Oct 09:57
(150m)
RUN ▲



Improved Operating Rate

Pinpoint Liquid Leakage Location Sensing at a Distance or by Area

Protection for Equipments

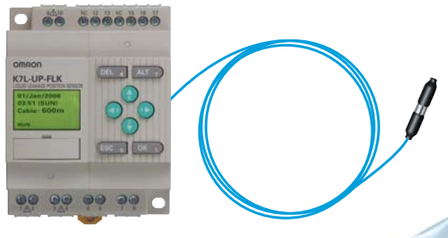
LEAK
01/Oct 09:57
300m
#01:Room1001
RUN

realizing

Rapid Liquid Leakage Detection with Distance or Area Display Enables Prompt Maintenance Support.

Improves Equipment Operating Rate and Protects Important Facilities from Liquid Leakage.

When liquid leakage is detected, the Liquid Leakage Position Sensor displays the distance to the location of the leakage on a monitor. It also displays leakage at a second location. This makes it possible to accurately determine the leakage location and to take prompt maintenance measures. In addition to further enhanced outputs, a monitoring system can be built using communications. This is the sensor of the future, minimizing downtime of critical equipment due to liquid leakage while protecting important facilities from damage.

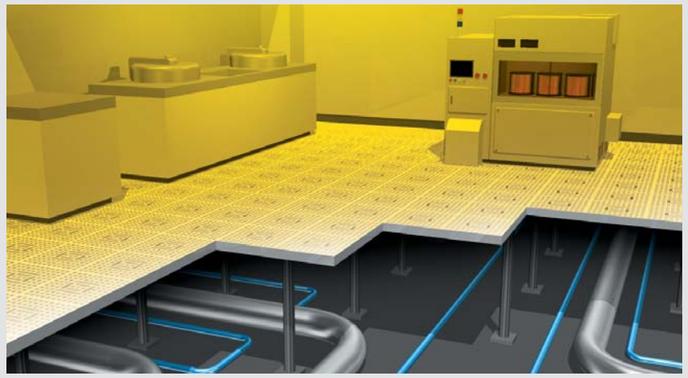


Achieve a Maintenance Environment in Various Fields.

1 Semiconductors / FPD Factories

Large quantities of pure water and chemical solutions are used in semiconductor and FDP factories. Here, production rates can be improved by rapid detection and restoration of liquid leakage locations.

Improved Operating Rate



2 IDCs (Internet Data Centers)

Humidity is constantly controlled to maintain equipment in an IDC. Here, liquid leakage from air conditioning can be held to a minimum.

System Maintenance and Management

3 Computer Centers

Humidity is constantly controlled to maintain equipment in a computer center. Here, liquid leakage from air conditioning can be held to a minimum.

System Maintenance and Management

4 Telecommunications Exchanges

Humidity is constantly controlled to maintain equipment in a telecommunications exchange. Here, liquid leakage from air conditioning can be held to a minimum. At the same time, liquid leakage from the large-capacity lead storage batteries for power interruptions can be monitored.

System Maintenance and Management

5 Chemical and Pharmaceutical Factories

Underground soil contamination and damage outside of the factory from chemical solutions can be held to a minimum in chemical and pharmaceutical factories.

Corporate Risk Management

6 Public Facilities (Art Museums, Public Museums, and Libraries)

Sprinkler systems are normally installed for fire protection in a public facility. Here, secondary damage from sprinklers that are broken in an earthquake can be held to a minimum.

Protection for Equipments

7 Banks

In a bank, water leakage damage to valuables such as documents and works of art in underground safety deposit boxes can be held to a minimum.
Secondary damage from sprinklers that are broken in an earthquake can also be minimized.

Protection for Equipments

8 Hospitals

Large amounts of water are used for surgery and dialysis in a hospital, so a water storage tank is installed in case the water supply is interrupted.
Here, water leakage from the storage tank can be monitored.

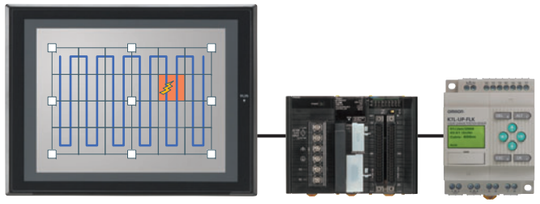
Hospital Risk Management

Pinpoint Liquid Leakage Detection at Up to 600 m. Easy Setup and Installation.

Find the Location of a Leak.

Even unseen places under the floor can be pinpointed and restored.

Liquid leakage locations are displayed in meters. The meter displays can be converted into area displays for up to 20 areas. In addition, the Sensor can be used in combination with a touch panel to visually display the leakage location as seen from the floor.



NS Series PLC

Observe Changes in the Extent of Leakage.

Detection of the extent of leakage and occurrence of a leak in another place.

With previous Sensors, when leakage occurred at a second location after having first been detected at one location, the position display for the first location was changed and the display value became unreliable. The client had to guess at the position of the leakage. With the K7L-UP, the position display for the first leak remains unchanged even when a second leak is detected.

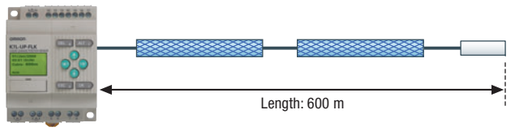
Note: The values in parentheses represent the second leakage location (reference value) after the leakage at the first location has been wiped off.

First location Second location

Leakage Can Be Monitored at Long Distance.

Monitoring at Up to 600 m with a Single Sensor.

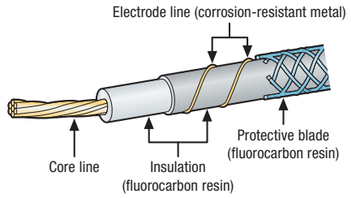
Liquid leakage sensor cable, general-purpose cable and Area Separator can be combined for a total length of up to 600 m. Being able to efficiently combine these cables helps lower costs.



Can Be Used in a Clean Room.

The liquid leakage sensor cable is made of fluorocarbon resin for worry-free use.

The liquid leakage sensor cable is made of fluorocarbon resin with chemical-resistant materials. There is little out gas and it can be used without worry in a clean room.



Easy to Use.

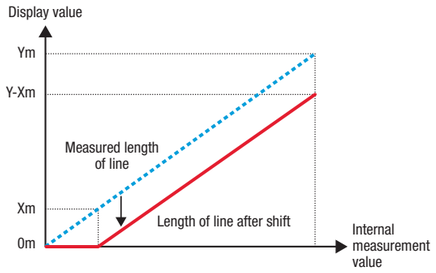
Connectors make it easy to connect and disconnect.

Installation and replacement are made easy with connectors.
In addition, flexible cables make wiring easy.

The Starting Position for Leakage Monitoring Can Be Shifted.

The location of the leakage detection is now easier to understand.

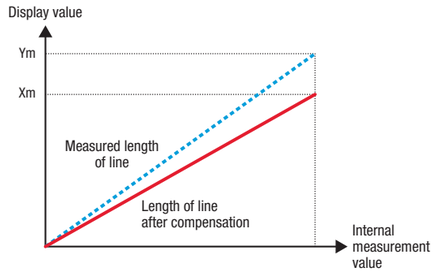
This function changes the 0-m position for the sensor cable. When there is a distance between the K7L-UP and the place where the leakage is detected, the display can be made easier to understand by changing any distance to 0 m.



Compensation Is Enabled for Discrepancies between Blueprints and Actual Sites.

Compensation can be used to adjust for actual site conditions.

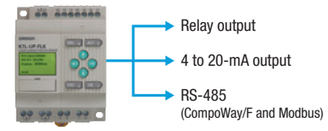
This function changes the length of the sensor cable to any value. When there is a discrepancy between the actual length and the measured length, this figure can be compensated to any value.



Connect to Essentially Any Device.

A Wide Selection of Outputs from a Relay Output to Communications Output to Suit the System.

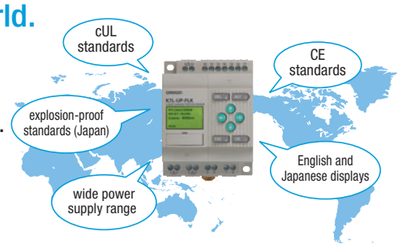
Relay outputs (NO/NC) and 4 to 20-mA outputs are supported, as well as RS-485 communications (CompoWay/F and Modbus), making it easy to connect to a PLC or touch panel.



Suitable for Use Around the World.

The Sensor conforms to international safety standards, and the display can be switched between English and Japanese.

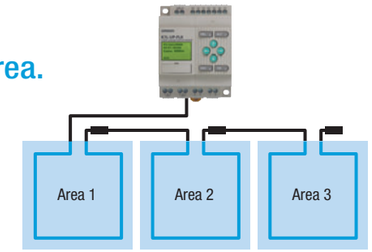
The Sensor can be used with assurance that it conforms with CE standards. cUL standards. In addition, support of English and Japanese displays and a wide power supply range (100 to 240 AC) allow it to be used worldwide.



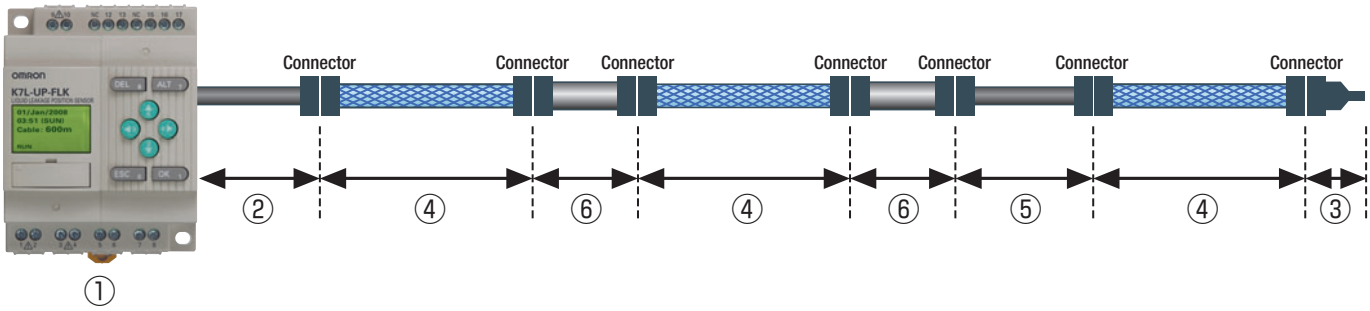
Catch the Liquid leak point by Area.

Divide into up to 20 areas and monitor it.

Leak positions in meters can be divided into up to 20 areas. F03-20UP-AS Area Separators can be used to enable accurately identifying the detection area in which a leak has occurred even when the leak occurs near an area boundary.



Models (Contact your OMRON representative for details on delivery times.)



	Product name		Model		Quantity
	Liquid Leakage Position Sensor		K7L-UP-FLK-P 100-240VAC		1
①	Controller *1		K7L-UP-FLK 100-240VAC		1
②	Connecting Cable *2		F03-21UP-CC		1
③	Terminator *2		F03-20UP-TC		1
④	Sensing Cable	2m	F03-16UP-C-2M		1
		5m	F03-16UP-C-5M		1
		10m	F03-16UP-C-10M		1
		30m	F03-16UP-C-30M		1
⑤	Junction Cable		F03-21UP-JC		1
⑥	Area Separator *3		F03-20UP-AS		1
—	Cable Stickers		F03-25	30 Stickes per bag	1

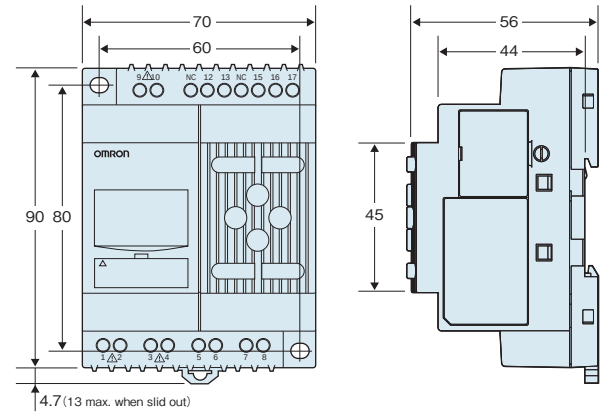
*1: The Controller cannot be ordered separately.

*2: Included with the K7L-UP-FLK, but can be ordered separately.

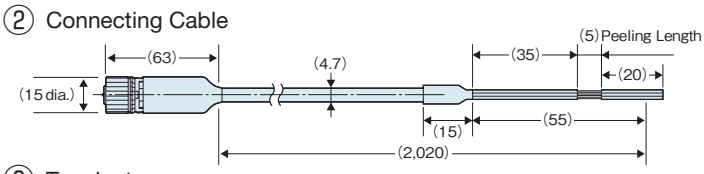
*3: Area Separators can be used to enable accurately identifying the detection area in which a leak has occurred even when the leak occurs near an area boundary.

Dimensions

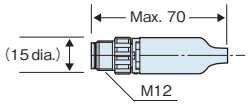
①



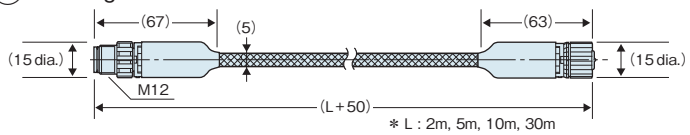
② Connecting Cable



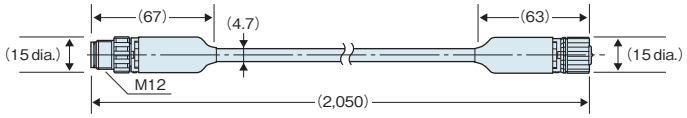
③ Terminator



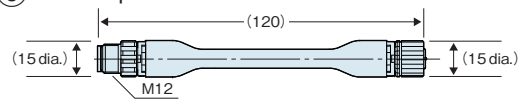
④ Sensing Cable



⑤ Junction Cable



⑥ Area Separtor



Check the catalog for the K7L-UP-FLK Liquid Leakage Position Sensor (Cat. No. F086) before purchasing the product.

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