



SIMPLE WIRE-SAVING UNIT For leak detection sensor

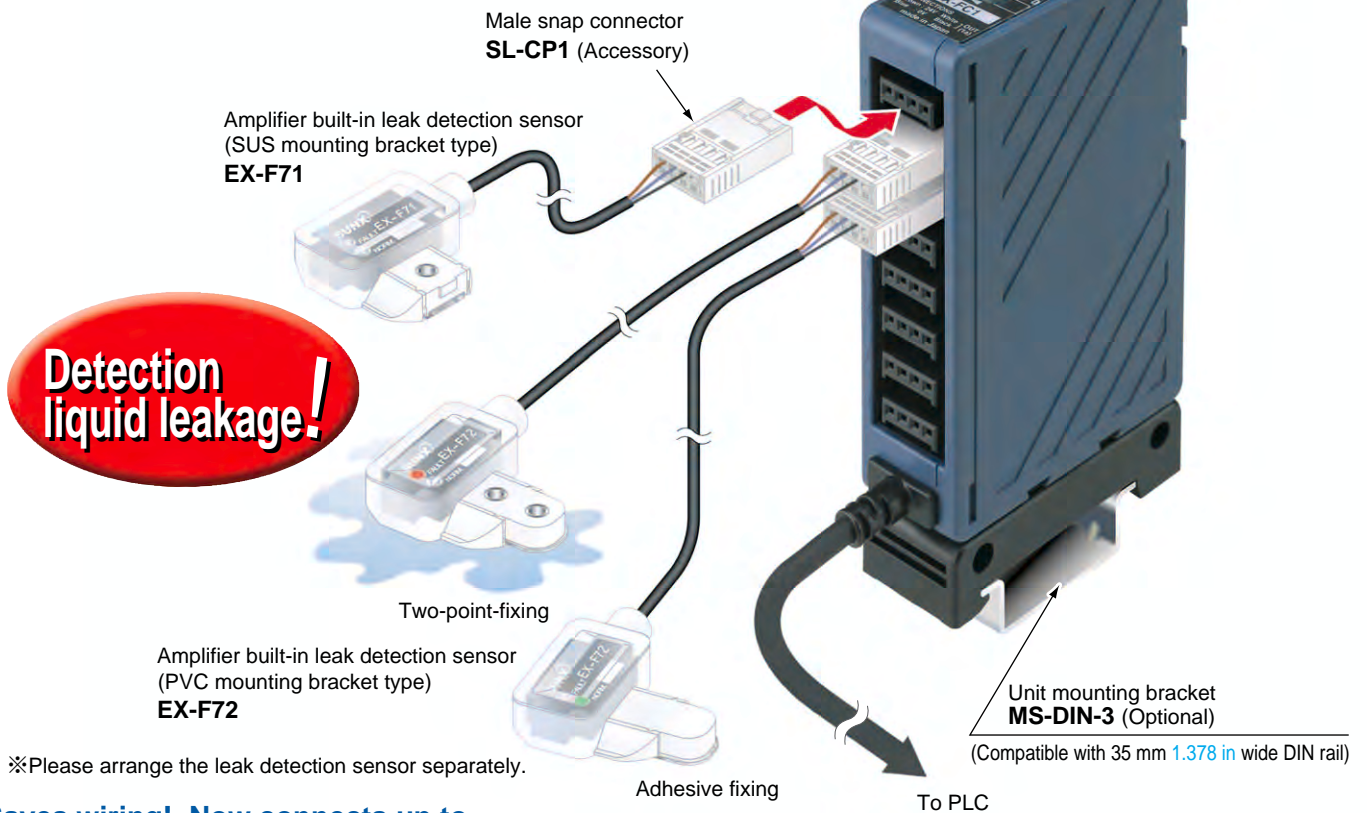
New

EX-FC1



Newly Released Wire-saving Unit Made Especially for Connecting Leak Detection Sensors!

Simple Wire-saving Unit for Leak Detection Sensor **EX-FC1**



Saves wiring! Now connects up to 8 leak detection sensors

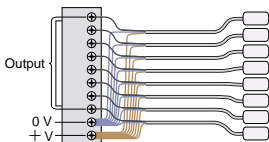
EX-FC1 is a simple wire-saving unit for exclusive use with **EX-F71/72** leak detection sensors.

The **EX-FC1** integrates the outputs from up to 8 leak detection sensors into a single OR output, allowing for significant wiring space savings.

* Even with only one leak detection sensor connected, an OFF signal is output if the sensor detects liquid leakage, or if the unit has been installed incorrectly.

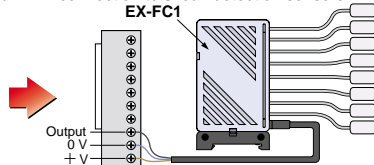
Conventional

Takes up 8 input terminals, one for each of the 8 leak detection sensors connected.



Using EX-FC1

Only 1 input terminal is needed to handle connection to 8 leak detection sensors!



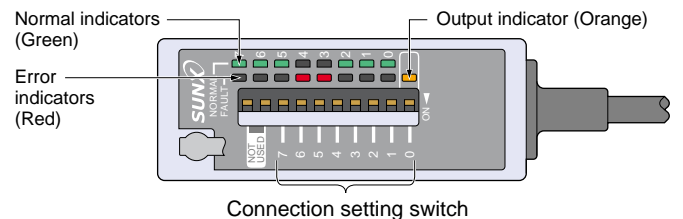
Slim & compact

Space savings are significant, as the ultra-thin & compact **EX-FC1** has main unit body dimensions of only W20 0.787 × H80 3.15 × D52 mm 2.047 in

3 indicators provide operational confirmation

In addition to an output indicator which allows users to verify output status, there are 2 built-in operation indicator lights (normal operation / malfunctioning) for each channel.

The indicator lights (normal operation / malfunctioning) enable verification of leakage detection status and correct installation of leak detection sensors, all at a glance.



Connects easily with one-touch connector

Connections are made by simply inserting the leak detection sensor cable leads into the male snap connector **SL-CP1**, then pressing down until the connector snap-locks!

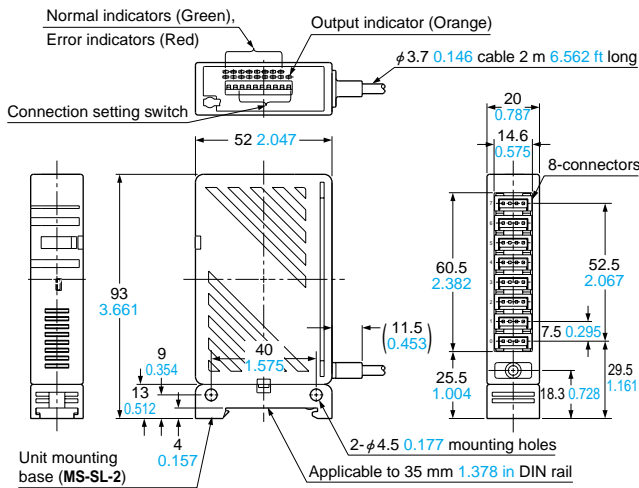
This saves the user the time and the trouble of stripping the insulation from each lead before attaching the leads to terminals.

SPECIFICATIONS

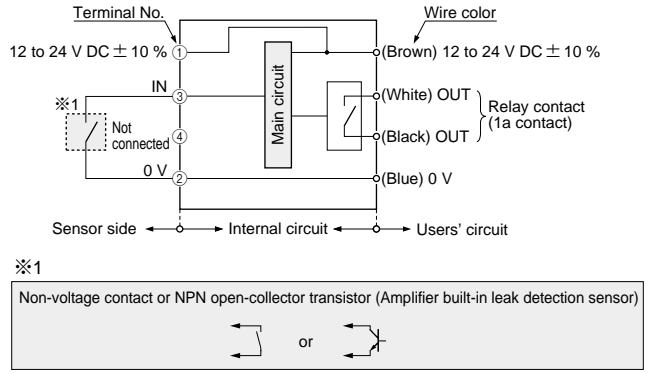
Designation	Simple wire-saving unit for leak detection sensor	
Item Model No.	EX-FC1	
Applicable connector	SL-CP1	
Supply voltage	12 to 24 V DC $\pm 10\%$ Ripple P-P 10% or less	
Current consumption	50 mA or less (for the unit itself), 135 mA or less (including the sensor input current when all outputs of sensors are ON)	
Output	Relay contact 1a • Switching capacity: Less than 50 V 0.3 A AC (resistive load) However, if CE conformity is not required, this can be used with 125 V 0.3 A AC. 30 V 1 A DC (resistive load) • Min. applied load: 10 mV 10 μ A DC • Electrical lifetime: 100,000 times or more (rated load, switching frequency 20 times / min.) • Mechanical lifetime: 50 million times or more (switcing frequency 80 times / min.)	
Output operation	The output relay is ON when the input signal from the sensor is ON	
Response time	5 ms or less (excluding the response time of the sensor)	
Input No.	8 Nos.	
Indicators	Normal	Green LED $\times 8$ (Light up when the sensor is connected to each channel and the connection setting switch is set to ON)
	Error	Red LED $\times 8$ (Light up when a leak is detected by a sensor connected to each channel or a sensor is mounted improperly)
	Output	Orange LED (Lights up when the output relay is ON (normal))
Ambient temperature	- 10 to +60 °C +14 to 140 °F (No dew condensation or icing allowed), Storage: - 20 to +70 °C - 4 to +158 °F	
Ambient humidity	35 to 85 % RH, Storage: 35 to 85 % RH	
Material	Enclosure: ABS, Terminal part: POM	
Cable	0.2 mm ² 4-core cabtyre cable, 2 m 6.562 ft long	
Cable extension	Extension up to total less than 10 m 32.808 ft is possible, with 0.3 mm ² , or more, cable.	
Weight	85 g 2.998 oz approx.	
Accessories	SL-CP1 (Male snap connector): 8 Nos. MS-SL-2 (Unit mounting base): 1 No.	

Note 1: The protective caps (**SC-PK**) used to protect the connectors, are available for sale separately.

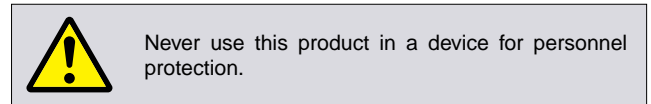
DIMENSIONS (Unit : mm in)



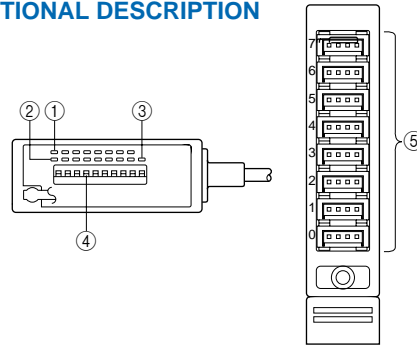
I/O CIRCUIT DIAGRAM (For one channel)



PRECAUTIONS FOR PROPER USE



FUNCTIONAL DESCRIPTION



	Description	Function
①	Normal indicators (Green LED $\times 8$)	Light up when the sensor is connected to each channel and the connection setting switch is set to ON
②	Error indicators (Red LED $\times 8$)	Light up when a leak is detected by a sensor connected to each channel or a sensor is mounted improperly
③	Output indicator (Orange LED)	Lights up when the output relay is ON (normal)
④	Connection setting switches	Set the switch to ON when the leak detection sensor is connected, set to OFF when the leak detection sensor is not connected
⑤	Connector	Connect the leak detection sensors

Operation matrix for each indicator

Operation	Connection state of the leak detection sensor	State of connection setting switch	Leak detected condition	Normal indicator (Green)	Error indicator (Red)	Output indicator (Orange)
Normal	Connected	ON	Not leaked	Lights up	Lights off	Lights up
			Leaked	Lights off	Lights up	Lights off
Error	Unconnected	OFF	—	Lights off	Lights off	Lights up
			—	Lights up	Lights up	Lights off

All information is subject to change without prior notice.

