Rope Water Sensor (RWSCxx / LWSCxx)

The rope water sensor comes in two parts, the orange non-sensing cable, and the yellow sensing cable. IP66 rated waterproof connectors join the two sections of rope together, with an additional connector at the tail end allowing the sensor to be extended with additional lengths as required. Lay these rope water sensors out around the perimeter of your room, or underneath aisles in your data center to give early warning of potential water leaks and avoid costly damage.

Rope water sensors are available in two versions. The standard RWSC type, and a locating type (LWSC). The locate type will identify how far along the length of the cable the leak has been detected.

Technical Specifications (LWSCxx)

Measurement Type	Wet or Dry Closest location detection
Measurement Rate	Multiple readings every second
	Able to detect the presence of water at specific location
Indication	LED for Status
Operating Temperature	-20 °C~60 °C 4 °F~140 °F
Pull Force Limit	Not to exceed 50 lb
Bend Radius	2 in. (50 mm) minimum
Pressure	Loads greater than 20 lb (9 kg) per linear inch at 20°C (68°F) may immediately trigger an alarm
Interface	
Communications Cable	RJ-45 jack to sensor using UTP Cat 5 wire
Communications Cable Max. length	The Locate Rope Water Sensor can be extended from the RJ-45 Intelligent Sensor ports on the base units up to 100 feet, or 30 meters using standard CAT5/6 LAN cable. Comes fully assembled and includes the rope portion that is the water sensing cable, the non-sensing area cable (from the rope to the sensing module) and the main sensing module Sensing rope cable can be pre-ordered from a 10 feet minimum to any custom run length (in multiples of 10 feet) of up to 160 feet or 50 meters. Non-sensing cable comes in a standard 20 feet run length.
Power Source	Powered by the controller unit. No additional power needed
	Full autosense including disconnect alarm
Power Consumption	Typical 125 mWatt, 25 mA
Dimensions	56 x 55 x 33.3 mm
Mounting	DIN rail mounting Screw mounting
Important Note	AKCP does not recommend the locateWater Sensor to be placed on a conductive surface.
Sensor count	1

RWSCxx - Technical Specifications

Measurement Range	Wet or Dry
Sensor Type	Open/Closed contact input switch
Measurement Rate	Multiple readings every second
	Able to detect the presence or non-presence of water
Indication	LED for Status
Operating Temperature	-20 °C~60 °C 4 °F~140 °F
Pull Force Limit	Not to exceed 50 lb
Bend Radius	2 in. (50 mm) minimum
Pressure	Loads greater than 20 lb (9 kg) per linear inch at 20°C (68°F) may immediately trigger an alarm
Interface	
Communications Cable	RJ-45 jack to sensor using UTP Cat 5 wire
Communications Cable Max. length	The Rope Water Sensor can be extended from the RJ-45 Intelligent Sensor ports on the base units up to 100 feet, or 30 meters using standard CAT5/6 LAN cable. Comes fully assembled including the Water sensing rope, the non-sensing cable that connects the rope to the sensing module and the main sensing module that connects via CAT5 LAN cable to the sensorProbe / securityProbe 5E. Sensing rope cable can be pre-ordered from a 10 feet minimum to any custom run length of up to 165 feet or 50 meters. Non-sensing cable comes in a standard 20 feet run length.
Power Source	Powered by the controller unit. No additional power needed
	Full autosense including disconnect alarm
Power Consumption	Typical 125 mWatt, 25 mA
Dimensions	56 x 55 x 33.3 mm
Mounting	DIN rail mounting Screw mounting
Important Note	AKCP does not recommend the ropeWater Sensor to be placed on a conductive surface.
Sensor count	1

RWSCxx / LWSCxx - Technical Drawing

33.3mm

To Sensor Port

45mm

56mm

20 ft.
(6.1 meters)

91.01mm

10 - 150 ft.
(3 - 45.7 meters)

91.01mm