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DATA SHEET

KEK

Produal

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KEK 1 condensation sensor



The KEK 1 condensation sensor detects water condensation in cooling systems, for example in cooling beams. You can use the measuring information to stop the cooling water supply when moisture starts to condensate on the cooling pipe.

You can connect the sensor to a resistance input that reads the information periodically. The maximum sample pulse length is 1 % of the total cycle time.

The sensor contact surface has a thermally conducting tape on it. This enables optimal heat transfer between the pipe and sensor. The tape also ensures clean and fast mounting.

Technical specifications

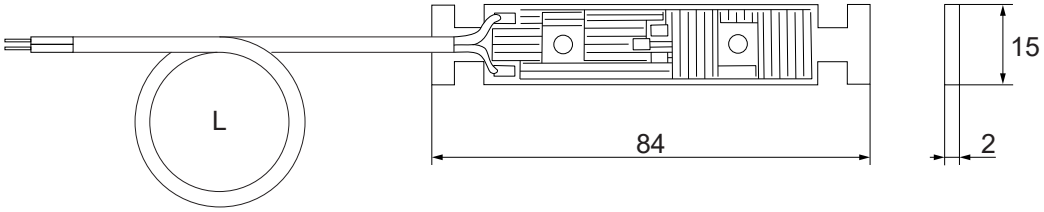
Property	Value
Condensation detection	
Sensor resistance, dry	∞
Sensor resistance, condensation point	approx. 100 kΩ
Probe	
Dimensions	84 x 15 x 2 mm
Cable	
Type	LIYY 2x0.14 mm^2
Length	
KEK 1	2 m
KEK 1-1m	1 m
KEK 1-3m	3 m
KEK 1-5m	5 m
KEK 1-10m	10 m
Appliance class (IEC 60664-1)	III
Operating conditions	
Ambient temperature	0...50 °C
Ambient humidity	0...100 %rH

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Property	Value
Storage conditions	
Temperature	-40...70 °C
Mounting	With two cable ties on the side of the pipe or below the pipe (Ø10...100 mm)
Warranty	5 years
CE UK CA	Refer to the EU Declaration of Conformity or the UK Declaration of Conformity for compliance information. You can find the declarations on this product's page at www.produal.com.

Dimensions

All dimensions are in millimeters (mm).



Model	L
KEK 1	2 m
KEK 1-1m	1 m
KEK 1-3m	3 m
KEK 1-5m	5 m
KEK 1-10m	10 m

Ordering information

	Type	Product number	Description
	KEK 1	1187040	Condensation sensor, 2 m cable
	KEK 1-1m	1187044	Condensation sensor, 1 m cable
	KEK 1-3m	1187041	Condensation sensor, 3 m cable
	KEK 1-5m	1187042	Condensation sensor, 5 m cable
	KEK 1-10m	1187043	Condensation sensor, 10 m cable

Wiring

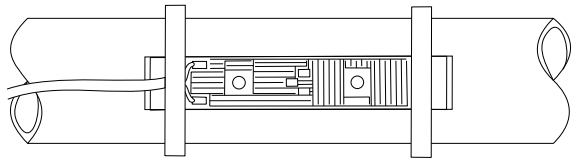
WARNING: Device wiring and commissioning can only be carried out by qualified professionals. Always make the device wirings in de-energised electricity network.

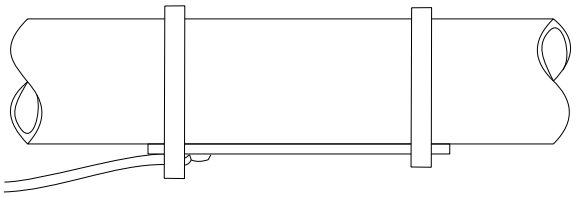
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1. Remove the protective cable tie.
2. Mount the sensor on the pipe with two cable ties.

   Important: Remove the protective cable tie before mounting the sensor.

   Mount the sensor on the side of the pipe or below the pipe. In a dusty environment, mount the sensor below the pipe.





3. Connect the sensor wires to a resistance input.

   You can connect the sensor to a resistance input that reads the information periodically. The maximum sample pulse length is 1 % of the total cycle time.