

## **CONDENSATION SWITCH KA 10**

Condensation switch KA 10 is designed for detecting water condensation in cooling systems, for example in cooling beams. With the condensation switch it is possible to control the cooling water supply when the water starts to condensate on the pipe.

The condensation information is provided with a 0...10 Vdc signal and a relay output.

The relay operating point can be adjusted with a trimmer (see the following table).

Trimmer position	Relay operation point (Y1 output)
0 %	1,7 V
50 %	4,4 V
100 %	7,7 V

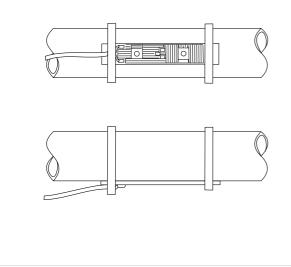
The indicator light on the circuit board is lit when the relay is energized. This helps when setting the relay operation point.

The condensation sensor element is based on an aluminium circuit board which provides fast response time.

The condensation sensor contact surface is equipped with thermally conducting tape. This ensures a good heat transfer between the pipe and sensor. The tape enables also clean and fast mounting.

The KA 10-EXT model has an external condensation sensor. The element cable length is 2 m.

The external sensor must be mounted on the side or under the pipe. In a dusty environment it is recommended to mount the sensor under the pipe.





## **Technical data**

Supply Outputs 0...10 Vdc 24 Vac/dc, 1 A Pipe diameter Housing Cable entry Ambient temperature Mounting (KA 10)

Mounting (KA 10-EXT) Sensor

Housing Sensor cable length (KA 10-EXT) 24 Vac/dc (22...28 V)

condensation information relay output 10...100 mm IP 54, cable entry down M16 0...50 °C With two cable ties on the side of the pipe

With two cable ties on the side or under the pipe With screws on the wall 2 m

## Wiring

- G 24 Vac
- Go 0 V
- Y1 condensation output, 0...10 Vdc
- NO normally open relay contact
- NC normally closed relay contact
- C common relay contact

## Ordering guide: Model Proc KA 10 1187

 KA 10
 1187030

 KA 10-EXT
 1187031

 Product number
 Description

 1187030
 Condensation switch

 1187031
 Condensation switch with external sensor

Products fulfill the requirements of directive 2004/108/EY and are in accordance with the standards EN61000-6-3: 2001 (Emission) and EN61000-6-2: 2001 (Immunity).

Produal Ov

 Keltakalliontie 18, 48770 Kotka FINLAND
 Tel: +358-5-230 9200 / Fax: +358-5-230 9210

 Information is subject to change without prior notice.