



RDM2 Rain Detector



The RDM2 rain detector is intended for the detection of both liquid and solid precipitation. The measurement principle is based on the observation of changes in conductivity between the crowns on the detection surface.

The printed circuit technology was used to apply two opposite, mutually unconnected conductive crowns to the upper detection plate. The conductive surface of the crowns is gilded. Impact of a raindrop or a snowflake on the detection surface triggers conductive connection of both crowns and the detector detects the presence of precipitation. Detector's output information is therefore of a bistable type (YES-NO, precipitation present-no precipitation).

The sensor's detection surface is heated. It enables the sensor to also detect solid precipitation (snowflakes) and this method is employed to reduce the time needed for drying of the detection surface after the termination of precipitation.

There are two LED diodes placed on the detection surface. The left-hand diode marked with HEAT lettering uses its illumination to indicate the detection surface is being heated. The right-hand diode marked with OUT lettering uses its illumination to indicate that precipitation is being detected.





RDM2 Technical Data			
Sensor	Detector of both solid	and liquid precipitation	
Туре		RDM 2	
Power supply		12V DC	
Current consumption at the	Without heating 0	DUT = 0 - max. 55 mA	
nominal supply voltage		OUT = 1 - max 65 mA	
	With heating	max. 1,7 A	
Output – relay contacts	Max. contact resistance of contacts	$100 \mathrm{m}\Omega$	
	Min. insulation resistance	$10^{11}\Omega$	
	Max. switched voltage	200 V DC	
	Max. switched current	0.5 A	
	Max. permanent current through the connect	or 1.0A	
Power supply voltage		12 VAC	
Activating temperature of	18 °C 20°C (factory adjusted, changeable inside of the sensor		
heating	within a range of 9°C 30°C)		
Response times	Precipitation start	immediately	
	Precipitation end electronically de	elayed to 2 -3 minutes	
Dimensions:	Diameter	r 64 mm, length 105 mm	
	De	etection area 40 x 36 mm	
Mounting	Using a holder (vertical pipe of 17 mm in diameter)		
	Or a yoke	under vertical M8 screw	
Connection (cable)		7 conductors	
Other features	• the possibility of the detection surface in	clination adjustment	
	and also the possibility to turn the compl	ossibility to turn the complete sensor in relation to	
	the points of the compass	e compass	
	• indication of the output and activation of	output and activation of heating on the	
	detection surface using the "OUT" and "	HEAT" LED diodes	