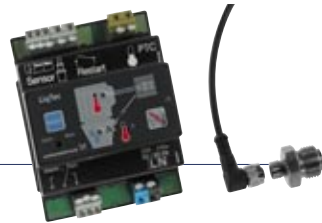


CR LiqTec



Dry running protection

In the industry, the most frequent cause of pump breakdown is dry running. Not only is dry running a cost-consuming affair, because production is put to an immediate standstill. In many cases it also ruins pump parts such as the shaft seal and the bearing systems. Over the years, our clients have asked our advice to prevent dry running from happening. Therefore, Grundfos has developed the LiqTec; an electronic anti-dry running sensor. If the LiqTec senses no liquid in the pump, it stops the pump at once before any damage is done, reducing the risk of breakdown by 50%.

And much more

Besides being a dry-running device the LiqTec offers a number of other features as well: The LiqTec prevents excessive liquid temperatures from damaging the pump. If the LiqTec senses a liquid temperature above 130°C, it stops the pump immediately. Further the LiqTec is a failsafe device, meaning that the pump stops as soon as the sensor detects an error on the sensor cable, the electronics or if the power supply of the control unit is cut off. The Grundfos LiqTec can also be connected to the thermistor, PTC, on the pump motor. If the motor temperature exceeds a certain level the LiqTec will stop the pump immediately.



Advantages and the LiqTec

Easy installation

With LiqTec, Grundfos has made an indispensable device that is robust and easy to mount on all the pumps in the Grundfos CR range. The sensor is inserted via the pump head, close to the shaft seal. Once the electronic sensor LiqTec is plugged in, the power is turned on and the control unit monitors the whole system.

Automatic restart

The LiqTec sends heat impulses through a sensor and measures the temperature of the sensor. If the sensor does not detect liquid in the pump, the pump is stopped. When the sensor detects liquid in the pump again, the pump is restarted either manually or automatically.

Technical data

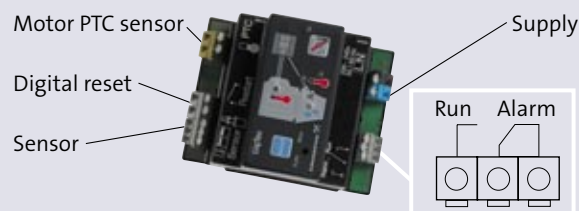
Max. pressure	40 bar
Max. ambient temp.	40°C
Max. liquid temp.	130°C
Power supply	1x200 - 240 V - 50/60 Hz 1x80 - 130 V - 50/60 Hz
Power consumption	5 W
Humidity	99%
Cable length	5 m / 20 m
Liquids	Any water-based liquid handled by Grundfos pumps

Custom-built solutions

The comprehensive standard Grundfos CR programme covers a wide range of pumps, for a wide range of different industrial applications. Besides, Grundfos designs custom-built pump solutions; acknowledging that sometimes it does not take more, than a little extra effort, to come up with the right solution. With a custom-built pump solution from Grundfos, your pump is capable of handling even higher pressures, more aggressive liquids, excessive liquid temperatures etc.



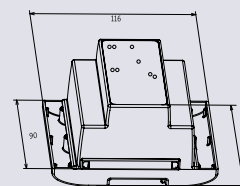
Sectional drawing



Product numbers

Complete unit	
(1x200 - 240 V)	96556429
(1x80 - 130 V)	96556430
Sensor unit service kit	96556427
Extra sensor cable kit	96443676
Patent pending	

Dimensions



Worldwide pump supplier

Being a worldwide pump supplier, Grundfos has committed itself to provide its clients with a global, reliable and efficient service network. Our experienced team of service technicians are always ready to serve you wherever in the world you are and – of course – at a short notice.