

## MEDICAL APPLICATIONS

# Blood Recovery System

## PRODUCT



103SR digital sensors

## BENEFITS:

- The 103SR series offers high quality and low failure rates
- Non-contact, no wear
- The sensor is highly sensitive to small magnets

## CONTACT US

For application assistance, current specifications or name of the nearest Authorized Distributor, check the Honeywell web site or call:

1-800-537-6945 USA  
 1-800-737-3360 Canada  
 1-815-235-6847 International

FAX 1-815-235-6545 USA

## INTERNET

[www.honeywell.com/sensing](http://www.honeywell.com/sensing)  
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## BACKGROUND

Replacing blood lost during surgery with donated blood exposes patients to the risk of AIDS and other contagious diseases. In addition, blood banks constantly run low on blood supplies.

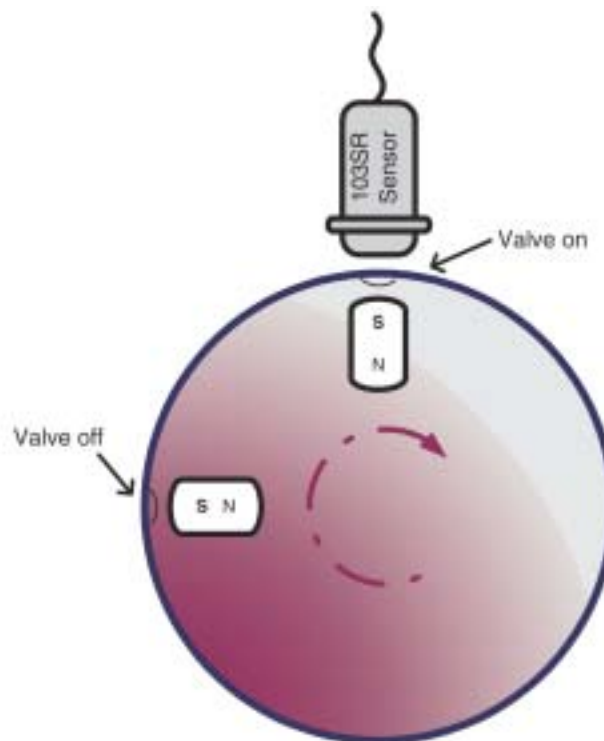
A blood recovery system collects the patient's own blood as it is removed and then cleanses the red blood cells before reinfusing. Patients and insurance companies find that this system costs approximately \$50 less per unit than donated blood and virtually eliminates the threat of contagion.

## SOLUTION

Honeywell 103SR Series Hall-effect digital position sensors are ideal for monitoring the operations of blood recovery systems. First, you can apply 103SR sensors to make sure that the cover of the system's centrifuge, which separates valuable red blood cells from other blood components, is secure before it begins rotating.

Then, in order to direct the flow of blood through the machine, place magnets on each valve in the pneumatic system. The 103SR series sensors can detect the valve positions, as demonstrated in Figure 1.

**Figure 1: A 103SR sensor detecting the valve position in a pneumatic device.**



**Additional Solid State Sensor product information is available on the Web at:**

<http://content.honeywell.com/sensing/prodinfo/solidstate/>