



HYDAC INTERNATIONAL

Filter System Area / 過濾系統領域

Functional principle / diagram:

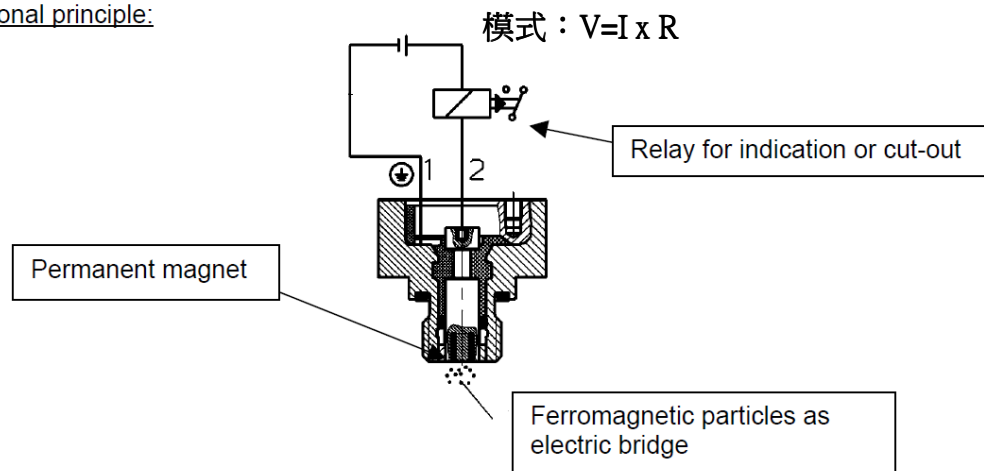
The permanent magnet solenoid at the measuring surface of the contamination switch attracts the ferromagnetic contaminant particles from the passing oil. The increased accumulation of particles forms an electrical bridge between the permanent solenoid and the adjacent metal contact. The resulting switching signal can, for instance, activate a warning function or switch off the system.



EY-1356 Contamination Switch
導磁性金屬顆粒監控開關

液壓系統、齒輪箱金屬顆粒污染偵測開關，利用金屬顆粒形成電橋導通，觸發開關訊號。

Functional principle:



Description:

The contamination switch series EY-1356 works as a warning element in hydraulic systems and gearboxes and has been developed by HYDAC ELECTRONIC to meet the special requirements of our customers.

The sensor detects and attracts metallic ferromagnetic particles in oil or in other hydraulic fluids. The accumulation of particles leads to a change of the ohmic resistance which has an effect on the switching signal. The contamination sensor thus provides an early warning of possible wear. Substantial damage on bearings and gear wheels, for instance, can therefore be avoided.

The sensor is available with different mechanical and electrical connections and can be integrated into almost any application.

Special features:

- Simple structure
- Robust construction
- Standard connection types