



# HYDAC INTERNATIONAL

## Electronic Area / 電子領域

### Triple Sensor HLT 1300

### with Linear Position + Pressure + Temperature

三合一磁性尺 HLT 1300, 具備位置、壓力、溫度感測器

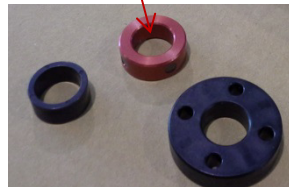
完全內埋式三合一功能磁性尺，可同時偵測位置、壓力及溫度



端子法蘭  
flange  
M12x1



磁石  
magnet



主系統與作動器的壓差補償、油缸活塞內洩偵測、作動器實際油溫偵測

#### DESCRIPTION

The linear position transmitter HLT 1300 with integrated pressure and temperature measurement function has been specially developed due to the growing demands in the field of linear position measurement. The measured values such as linear position, pressure and temperature are simultaneously digitised and made available to the CAN field bus system via the CANopen Safety protocol in a highly dynamic and safe way.

**Measured variable: distance, functionally safe**  
The sensor works on the principle of magnetostriction which enables the highly precise determination of the distance / the position. It has been developed specifically for use in safety circuits / safety functions as part of the functional safety of machinery and equipment up to SIL 2 (IEC 61508) or PL d (ISO 13849).

**Measured variable: pressure**  
The pressure transmitter is integrated inside of the sensor housing and measures the pressure at the sensor rod. The sensor combines excellent technical characteristics. A strain gauge sensor cell is the basis for a robust, long-life pressure transmitter.

**Measured variable: temperature**  
The temperature transmitter is integrated inside of the linear position sensor rod and measures the oil temperature inside of the hydraulic cylinder. The temperature sensor is based on a semiconductor sensor. Temperatures of -40 °C up to +120 °C can be measured.



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