



HYDAC INTERNATIONAL

Electronic Area / 電子領域

Functional Safety
PL d
SIL 2

CANopen
safety easy to use

Angle sensor HAT 1000 and HAT 3000 HAT 1000、3000、3800角度傳感器

DESCRIPTION

In recent years, HYDAC ELECTRONIC have been systematically developing their sensor portfolio also with focus of attention to the realisation of sensors meeting the increased requirements regarding functional safety.

Introducing the HAT 1000 and HAT 3000 HYDAC now have new series of absolute measuring angle sensors. The sensors magnetically measure the angle of rotation by means of a robust and contactless measuring method.

The HAT 1000 are singleturn rotation transducers with a resolution of 14 bit. For applications with higher requirements the HAT 3000 with 18 bit resolution are offered. Measuring values are transmitted via CANOpen Safety interface.

The sensors meet the safety requirements according SIL2 (IEC 61508) or PL d (ISO 13849).

The angle sensors therefore are suitable for a wide field of applications in mobile working machines and especially for applications with increased safety requirements.

HYDAC Elec-
tronic



PRODUCT ADVANTAGES

- Increased functional safety according SIL2 (IEC 61508) or PL d (ISO 13849)
- Resolution up to 18 bit
- Variety of output signals e.g. CANOpen Safety
- Robust stainless steel housing
- Fully encapsulated electronics hence IP69 K
- Measuring range from 0° to 360° in continuous rotation
- Various model types
- Option: External magnetic actuator

Angle Sensor HAT 3800

Magnetic

Absolute

Singleturn, 18 bit



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