

CASCED Controlled English Translation

Source file: 位置/MCH磁致伸缩位移传感器.pdf

Original diagrams and page relationships are retained in the paired source PDF. The following English text is the controlled translation and data transcription.

MCH Series Magnetostrictive Position Sensor

Model: MCH

Product family: Position and Presence Sensing

Category: Linear Position Sensors



Overview

Compact, non-contact magnetostrictive position sensor for absolute linear position measurement.

Features

- Non-contact and wear-free
- Absolute linear output
- High vibration and interference resistance
- Low-power design
- Multiple output and connection options

Applications

- Hydraulic-cylinder and industrial linear-position measurement

Technical Specifications

Specification	Source value
Measuring range	50–2500 mm; custom range available
Number of positions	1
Resolution	±0.1 mm for 50–400 mm; range ÷ 4096 above 400 mm, as printed
Nonlinearity	±0.1 mm for 50–400 mm; 0.02% above 400 mm
Repeatability	±0.1 mm
Hysteresis	<0.1 mm
Update time	2 ms
Operating temperature	-40°C to +105°C
Temperature coefficient	<30 ppm/°C

Specification	Source value
Shock	GB/T 2423.5, 100 g (11 ms)
Vibration	GB/T 2423.10, 25 g, 10–2000 Hz
Protection	IP67
Input voltage	9–32 VDC
Power consumption	<1 W
Continuous/peak pressure	35 MPa / 70 MPa
Output options	4–20 mA; 20–4 mA; 0–20 mA; 20–0 mA; 0–10 V; 10–0 V; 0–5 V; 5–0 V; 0.5–4.5 V; 4.5–0.5 V

Source-Control Status

Review required — the first source page is headed ACP Series while the file and later pages identify MCH Series.