

capaNCDT CSI-1 Capacitive sensor for OEM integration

Application:

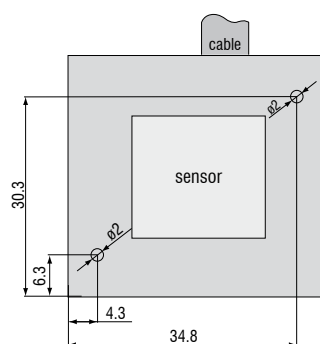
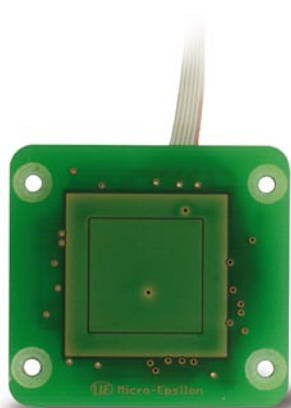
Position measurement on actuators which control movement of valves.

Features:

- Low cost
- Customer specific dimensions
- Simple to integrate
- Miniature design with completely integrated electronics

Specifications	
Measuring range	1 mm
Update Rate	45 Hz
Linearity	≤0.1 % d.M.
Resolution	PWM 16 Bit RS232 24 Bit
Noise _{pp}	min ±0.005 % typ ±0.04 % max ±0.1 %
Power supply	6 .. 15 VDC, 6 mA
Temperature range	5 .. 70°C
Temperature drift	min 10 ppm / °C typ 100 ppm / °C max 250 ppm / °C
Output signal	PWM 0-5V MBA 0% duty cycle ≥MBE 100% duty cycle RS232 57600 Baud, 8 data bits, no parity bit, 1 stop bit

The target has to be connected to the same ground as the power supply ground.



(dimensions in mm)

Application example: piezo actuator with CSI-1

