# Displacement Sensor CS40-1mm

Item number: 14568



The crack sensor CS40 is used to monitor cracks on structures. Another area of application is the dendrometer, for measuring the perimeter of tree trunks. The path sensor is suitable for single-axis distance measurement for the measuring range of 5mm.

The crack sensor is constructed in strain gauges technology.
The CS40 crack sensor is installed with adhesive M-Bond 30, M-Bond 31, or with a steel cable to measure the circumference of tree trunks. For the fastening of a steel cable, millings are available, which are closed similar to a fork head, with cylinder pins.

The strain gauges are covered with silicone. The path sensor has a protection class of IP65 Due to the open construction, additional measures to protect against water and moisture are recommended for long-term outdoor applications, e..B covers or additional coatings with silicone.

The GSV-2MSD or GSV-6LTE measuring amplifiers are suitable for data collection and acqusition.

## Optional special version

- Protection class IP68: from rated force 200 N
- Pressure range up to 8 bar
- autoclavable

ME-Meßsysteme GmbH
Eduard-Maurer-Str. 9
DE-16761 Hennigsdorf

Tel: +49 (0)3302 8982 4 10
Mail: vertrieb@me-systeme.de
Web: www.me-systeme.de

Stand: 12.11.2026

## Technical Data

| Basic Data | | Unit |
|---|---|---|
| Typ | Wegsensor | |
| Nennweg | 5 | |
| Gebrauchsweg | 150 | |
| Abmessung | 70 x 40 x 15 | |

| Electrical Data | | Unit |
|---|---|---|
| Input resistance | 350 | Ohm |
| Tolerance input resistance | 10 | Ohm |
| Output resistance | 350 | Ohm |
| Tolerance output resistance | 10 | Ohm |
| Insulation resistance | 200 | MOhm |
| Rated range of excitation voltage from | 2.5 | V |
| Rated range of excitation voltage to | 5 | V |
| Operating range of excitation voltage from | 1 | V |
| Operating range of excitation voltage to | 10 | V |
| Zero signal from | -0.5 | mV/V |
| Zero signal to | 0.5 | mV/V |
| Characteristic value range from | 0.8 | mV/V |
| Characteristic value range to | 1.2 | mV/V |

ME-Meßsysteme GmbH
Eduard-Maurer-Str. 9
DE-16761 Hennigsdorf

Tel: +49 (0)3302 8982 4 10
Mail: vertrieb@me-systeme.de
Web: www.me-systeme.de

Stand: 12.11.2026

| Accuracy Data | | Unit |
|---|---|---|
| Relative linearity error | 1 | %FS |
| Relative zero signal hysteresis | 1 | %FS |
| Temperature effect on zero signal | 0.1 | %FS/K |
| Temperature effect on characteristic value | 0.05 | %RD/K |
| Relative creep | 0.05 | %FS |

ME-Meßsysteme GmbH
Eduard-Maurer-Str. 9
DE-16761 Hennigsdorf

Tel: +49 (0)3302 8982 4 10
Mail: vertrieb@me-systeme.de
Web: www.me-systeme.de

Stand: 12.11.2026