

Knock Sensor

P/N 43.20.001

Dimensions

- | | |
|--|----------------|
| • length | 47 mm (1.85") |
| • width | 28 mm (1.10") |
| • height | 21 mm (0.83") |
| • diameter of opening for mounting screw | 8.4 mm (0.33") |

Mechanical and Electrical Data

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|---|---|
| • sensitivity at 5 kHz (when sensor is new) | 26 +8 -5 mV/g |
| • variation during service life | max. -17 % |
| linearity between 5 and 15 kHz | +20 to 10 % of measured 5 kHz value |
| at resonances (frequency range \leq 2 kHz) | 15 to 41 mV/g |
| • linearity between 15 and 20 kHz | +20 % to +50 % linear rise across frequency |
| at resonances (frequency range \leq 2 kHz) | 20 to 49 mV/g |
| • main resonance frequency | > 25 kHz |
| • impedance | R > 1 M Ω
C = 1100 \pm 300 pF |
| • leak resistance, if applicable:
(resistance between the two output pins of the sensor) | 4.9 Ω \pm 20 % |
| • temperature dependence of sensitivity | \leq -0,06 mV/g $^{\circ}$ K |
| • protection class | IP 54 A |

Connection

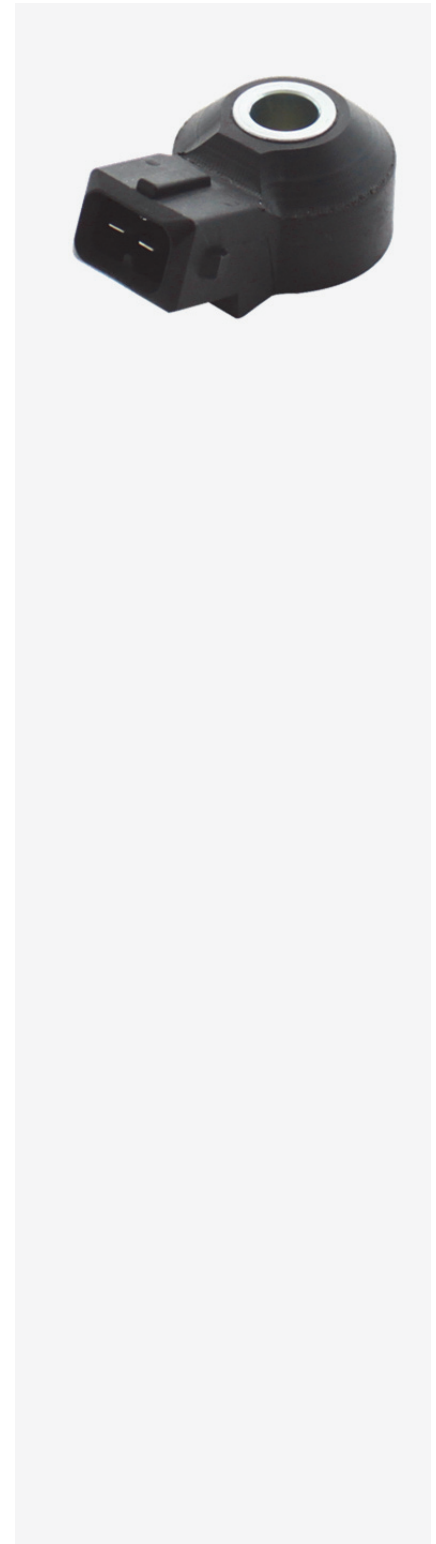
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|--------|------------------|
| • plug | 2-pole connector |
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Climatic Environmental Conditions

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|---------------------------------|--|
| • permissible temperature range | -40 $^{\circ}$ C to +130 $^{\circ}$ C (-40 $^{\circ}$ F to 266 $^{\circ}$ F) |
|---------------------------------|--|

Installation

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|----------------------|------------------------------------|
| • fixing screw in AL | M8x30-8.8 |
| • fixing screw in GG | M8x25-8.8 |
| • mounting position | random |
| • holding torque | 15 \pm 2 Nm (11 \pm 1.5 lb-ft) |



Overview Drawings

