

I Detonation Sensor

P/N 43.20.001

Dimensions

• Length	45 mm (1.77")
• 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

• Sensitivity at 5 kHz (new sensor)	26 mV/g \pm 8 mV/g
• Change during service life	Max. -17 %
• Linearity between 5 kHz and 15 kHz at resonances (frequency range \leq 2 kHz)	\pm 15 % of measured 5 kHz value 15 mV/g to 39 mV/g
• Main resonance frequency	> 20 kHz
• Impedance	R > 1 M Ω C = 1200 pF \pm 400 pF
• Leak resistance (Resistance between the two output pins of the sensor)	4,9 M Ω \pm 20 %
• Temperature dependence of sensitivity	\leq -0,06 mV/g $^{\circ}$ C
• Protection class	IP54

Connection

• Pole connector	2-pole connector
------------------	------------------

Climatic Environmental Conditions

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

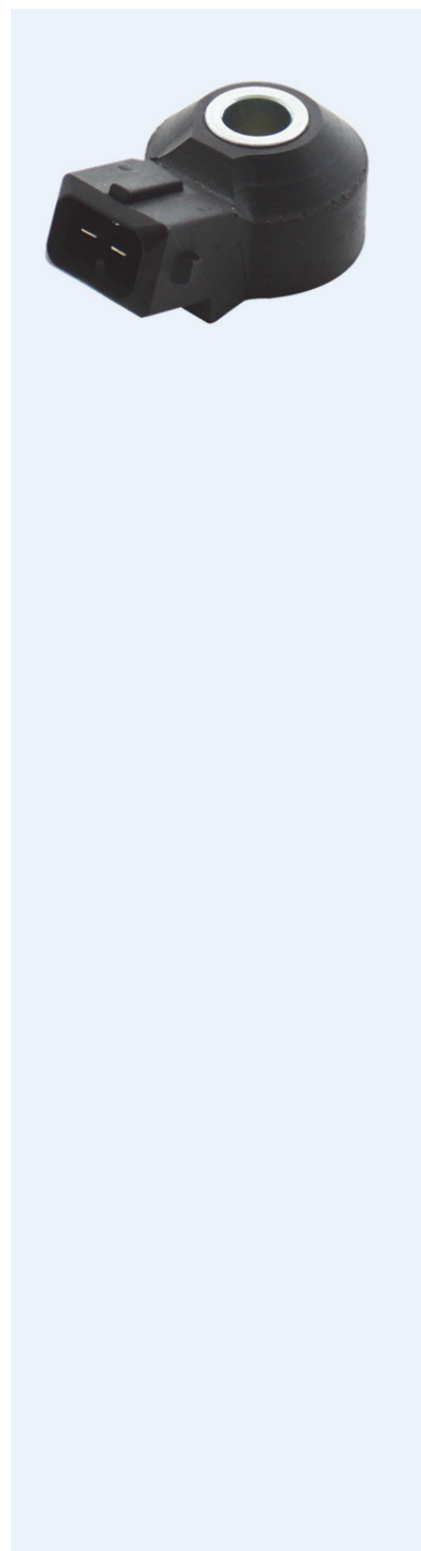
Mounting

• Torque	20 Nm \pm 5 Nm (14.8 lb-ft \pm 3.7 lb-ft)
• Mounting screw	
Cast iron engine block	M8 x 25 mm (0.98"), Property class 8.8
Aluminum engine block	M8 x 30 mm (1.18"), Property class 8.8
• Mounting position	Random

Mounting on Cylinder Head Screw*

• Torque	15 Nm \pm 5 Nm (11 lb-ft \pm 2.2 lb-ft)
• Mounting screw	M6 x 30 mm (1.18"), Property class 10.9 with sleeve
• Mounting position	Random

* If necessary, the material of the cylinder head screw on which the sensor is mounted should also be considered.



Overview Drawings

