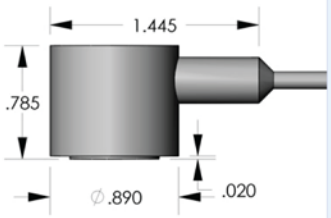
PRODUCT DATA SHEET

ISR6 Sensor

Intrinsically Safe Sensor



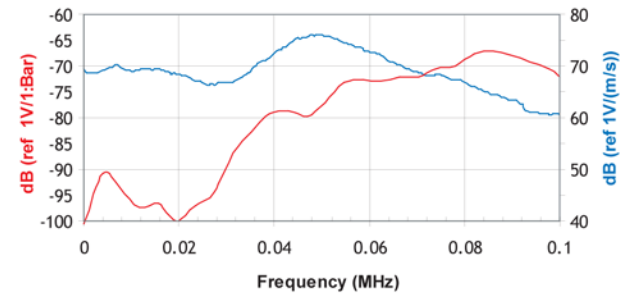
DESCRIPTION AND FEATURES

The ISR6 sensor was designed specially to meet intrinsic Safety (IS) and IP66 environmental requirements. Certified as Intrinsically Safe (IS) for use with our 1276-2 IS preamplifier and 1276-1 and 1278 IS ASL-C subsystem, this sensor has a thicker ceramic wear-plate and an epoxy coating completely covering the sensor and cable exit. An IS voltage protection circuit is built into the sensor.

It has an integrated two-meter long cable with extruded TPE jacket and a pigtail for connecting into a 1276 or 1278 IS Preamplifier or Subsystem. The sensor has similar frequency response as the R6 sensor. Its maximum operating temperature is 125°C.

APPLICATIONS

This sensor is ideal for use on metal and FRP structures such as pipelines or storage tanks in petroleum, refineries, chemical plants, and offshore platforms where Intrinsically Safe is regulated, due to its high sensitivity and low resonance frequency properties.



OPERATING SPECIFICATIONS

Dynamic

Peak Sensitivity, Ref V/(m/s) ..... 76 dB
Peak Sensitivity, Ref V/µbar ..... -63 dB
Operating Frequency Range ..... 35-80 KHz
Resonant Frequency, Ref V/(m/s) ..... 50 KHz
Resonant Frequency, Ref V/µbar ..... 85 KHz
Directionality ..... +/- 1.5 dB

Environmental

Temperature Range ..... -45 to 125ºC
Shock Limit ..... 1,000 g
Waterproof IP66
Completely enclosed crystal for RFI/EMI immunity

Physical

Dimensions ..... 0.89"OD X 0.755"H
..... 22.6 mm OD X 19.2 mm H
Weight ..... 33 grams with 2 meter cable
Case Material ..... Stainless steel/Epoxy
Face Material ..... Ceramic
Connector ..... Pigtail
Connector Locations ..... Side
Seal ..... Epoxy
Sensor to Preamp Cable (1 meter) ..... Integral

Certifications

ATEX Certified, II1, GD, EEx, ia, IIC T4

ORDERING INFORMATION AND ACCESSORIES

ISR6 ..... ISR6
Pre-amplifier 1276-2
ASL-4-20 ma Subsystem 1276-1
Preamp to System Cable (specify length in 'm') 1276C
IS Barrier 1278B/1276B
ASL-4-20 ma Subsystem 1278/1276-1
Other IS Sensors are available with various resonant frequencies.

Sensors include

NIST Calibration Certificate & Warranty

ДИАПАК ТЕХНИЧЕСКАЯ ДИАГНОСТИКА
Россия, 125367, Москва,
ул. Габричевского д. 5, корп. 1.
Тел.: +7(495) 789-4549
Факс: +7(495) 789-4536
E-mail: mail@diapac.ru