

DS822 ATEX

Product Data Sheet

DS822.OD110

Eddy Current Sensor Driver

NOMINAL SYSTEM LENGTHS	SYSTEM MEASURING SPAN	SYSTEM INCREMENTAL SCALE FACTOR	NOMINAL SUPPLY VOLTAGE
5 m or 10 m	2 mm	-8 mV/microm	-24 V DC

Bruel & Kjaer DS822.OD110 is a eddy current sensor driver in the ds822 ATEX range. It is the oscillator/demodulator used with the documented ds822 eddy-current displacement sensor chain. The series supports machine protection and condition monitoring in hazardous environments.

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VERIFIED TECHNICAL DATA

Nominal system lengths	5 m or 10 m
System measuring span	2 mm
System incremental scale factor	-8 mV/microm
Nominal supply voltage	-24 V DC
Permitted supply range	-18 to -28 V DC
Maximum operating current	12 mA with load ≥ 100 kohm
Dynamic output resistance	50 ohm
System frequency response	DC to 10 kHz at -3 dB
Housing material	ADC12 aluminium alloy
Driver enclosure protection	IP20

ADDITIONAL PRODUCT DATA

Driver operating temperature	-55 to +85 deg C, hazardous-area limits apply
Storage temperature	-20 to +70 deg C in original packaging
Relative humidity limit	100% non-condensing with protected connectors
Signal connector	Push-pull self-latching coaxial SAA
Power source current limit	1 A maximum, short-circuit proof

DOCUMENTED USE SETTINGS

Steam Turbine and Electric Power Generation: Steam Turbine Power Generation.

Oil Refining and Natural Gas Processing: Refinery Compression and Processing.

Chemical Manufacturing and Industrial Process Production: Industrial Chemical Production.

SYSTEM COMPATIBILITY

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PRODUCT EVIDENCE

ds822 ATEX manufacturer technical reference

AMIKON PRODUCT SUPPORT

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