



Incremental Optical Encoder in ATEX enclosure

RCI 444ADF - FS



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Généralités :

PRECILEC optical incremental encoders are designed with the same reliability than the RADIO-ENERGIE tacho generator. They measure with the highest accuracy the angular speed and position of rotating shafts in industrial environment.

One or two optical encoders or a combination of a tachogenerator and an optical encoder can be mounted in an ATEX certified enclosure and used in potentially explosive atmospheres.

The enclosure is ATEX certified II 2 G and D, EEx d IIC – T5.

Usually the applications for similar encoders are explosive atmospheres such as machine tools, motor drives in explosive environment, iron industry, nuclear, oil or cement industries.

Main Characteristics :

PRECILEC encoders use a differential optical and ratio metric principle to minimize temperature and photodiode aging effects.

Their universal complementary push-pull output interface and their large supply voltage range make them very easy to connect to most of electronic control units.

Shaft type : 7, 11mm, stainless steel shaft.

Housing diameter : 115 mm.

Pulses per turn : from 1 to 5400.

Fixation by RE.0444 tacho flange– Termination Radial cable, M23 and Mil receptacle.

Operating temperature range (encoder body) : - 25° C / + 85° C.

Electrical Characteristics :

Supply voltage : 4,5 to 30V DC with reverse polarity protection.

Output signals Universal complementary push pull, short circuit protected (7272) RS422 compatible with 5V supply voltage.

Mechanical Characteristics :

Max speed : 10000rpm.

Protection : IP64 at shaft end, IP 65 at housing (IEC60529).