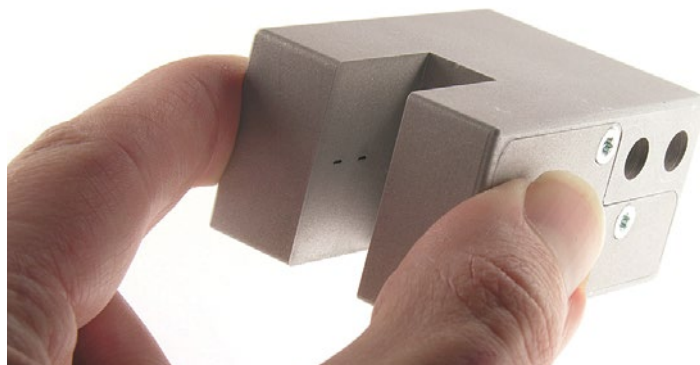
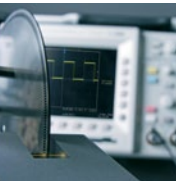


Encoder

- Different encoders down to 0.1 ° resolution available (3600 pulses / revolution)
- Fits perfectly to all DEWE-ORION boards
- Perfect for Combustion Analysis or Torsional and Rotational Vibration Applications



Encoder sensors								
	Models	Pulses per revolution	Resolution	Diameter of disc	Max. rpm	Max. Output freq. [kHz]	General description	Applications
	CA-RIE-360	360	1°	121.6 mm (4.79 in.)	12000	125	Rugged industrial encoder sensor with 1 zero puls per revolution	Combustion Analysis
	CA-RIE-720	720	0.5°	236.2 mm (9.30 in.)	10000	125	Optimized for use with DEWE-CRANKANGLE-CPU ¹⁾ to reach resolutions up to 0.1° Sensor size: 25.5 x 39.5 x 47.5 mm (1.0 x 1.55 x 1.87 in.) Temp. Range -10 °C to 60 °C (extended temp. range on request)	Torsional Vibration Rotational Vibration
	CA-ENCODER-900	900	0.4°	-	9000	300	Incremental hollow shaft encoder	Combustion Analysis
	CA-ENCODER-3600	3600	0.1°	-	5000	300	IP65 protected 12 mm shaft diameter (end to end hollow shaft) incl. fixturing and 10 m cable Size: 72 x 45 x 51 mm (2.81 x 1.76 x 2 in.) Temp. Range -20 °C to 85 °C	

¹⁾ The DEWE-CRANKANGLE-CPU is already integrated in DEWE-xxxx-CA2-PROF systems!



The CA-RIE-xxx sensors offer TTL signal output and can be connected directly to any DEWE-CA or torsional and rotational vibration analysis systems from DEWETRON.

The function is based on transmission light principle. An infrared beam is emitted and received at the sensor unit. The customized marker disk (with slits) is mounted in-between the sensors gate. The slits will interrupt the infrared beam, the receiver transforms the light to voltage.

The marker disk is manufactured according to your specifications.

There are two possible types available:

- 360 slits = 1° resolution (outer diameter 120 mm)
- 720 slits = 0.5° resolution (outer diameter 230 mm)

(Other diameters on request)



The angle encoder was mainly developed to be mounted between engine and brake shaft, where you can hardly mount an encoder. The disk can be easily mounted between the flange of the engine and brake shaft.



Typical examples for mounting the torsional vibration encoder between engine and brake

The optional magnetic "Quick Mounting Kit" for test installation will minimize the setup time. Use this only for test installation - for real measurements it has to be mounted stiff and secure at the test pad!

In conjunction with the DEWE-CRANKANGLE-CPU the resolution can be increased up to 0.1°. This module is already integrated in any DEWE-xxxx-CA-PROF system, but can be used as a stand-alone box for any other system also.

