

Type Certificate DEIF A/S Anti Knocking System Type: AKR 3 Technical specifications Inputs vibration: Up to 24 sensor signals. Sensor type: Bosch. Inputs speed: 1 camshaft sensor input 1 crankshaft sensor input (optional) Range: 300-2800 RPM Pickup type required: Differential Hall effect sensor with push-pull output stage or inductive sensor. 18...32VDC max. 400mA Auxiliary supply: Weight: 1,5kg Type test specifications Tested according to: Temperature: -25....105°C (operating) IEC 60068-2-1 -40....105°C (storage) IEC 60068-2-2 Climate: 97% RH IEC 60068-2-30, test Db Operating altitude 0-4000m above sea level. IEC 60068-2-6 & IACS UR E10 Vibration: 3...25Hz: 3,2mmpp 25...100Hz: 4g Shock: Base mounted 10g, 11msec. half sine IEC 60255-21-2 Response (Class 2) 30g, 11msec. half sine IEC 60255-21-2 Endurance (Class 2) 50g, 11msec. half sine IEC 60068-2-27, test Ea Tested with 3 impacts in each direction in all 3 axes. Total 18 impacts per test. Bump 20g, 16msec. half sine IEC 60255-21-2 (Class 2) Tested with 1000 impacts in each direction in all 3 axes. Installation Cat.III 24V DC Safety: EN 61010-1 Pollution degree 2 FMC: EN 61000-6-2/4 IEC 60255-26 IEC 60533 power distr. zone IACS UR E10 power distr. zone Materials: Housing: Aluminium

extinguishing according to UL94 (V0)

17th October 2014 **DEIF A/S**

Connectors: Polyamide PA66 materials according to UL94 (HB)

Additional connector cover for UL and Marine approvals: Plastic material self-

Knud J. Poulsen Type Approval Manager

Protection: IP65 IEC/EN 60529

*) Tested on all units according to specifications. Remaining specifications are tested regularly by test sampling