

# Rotor Earth Fault Detector

Model no: A1032-N103206M02

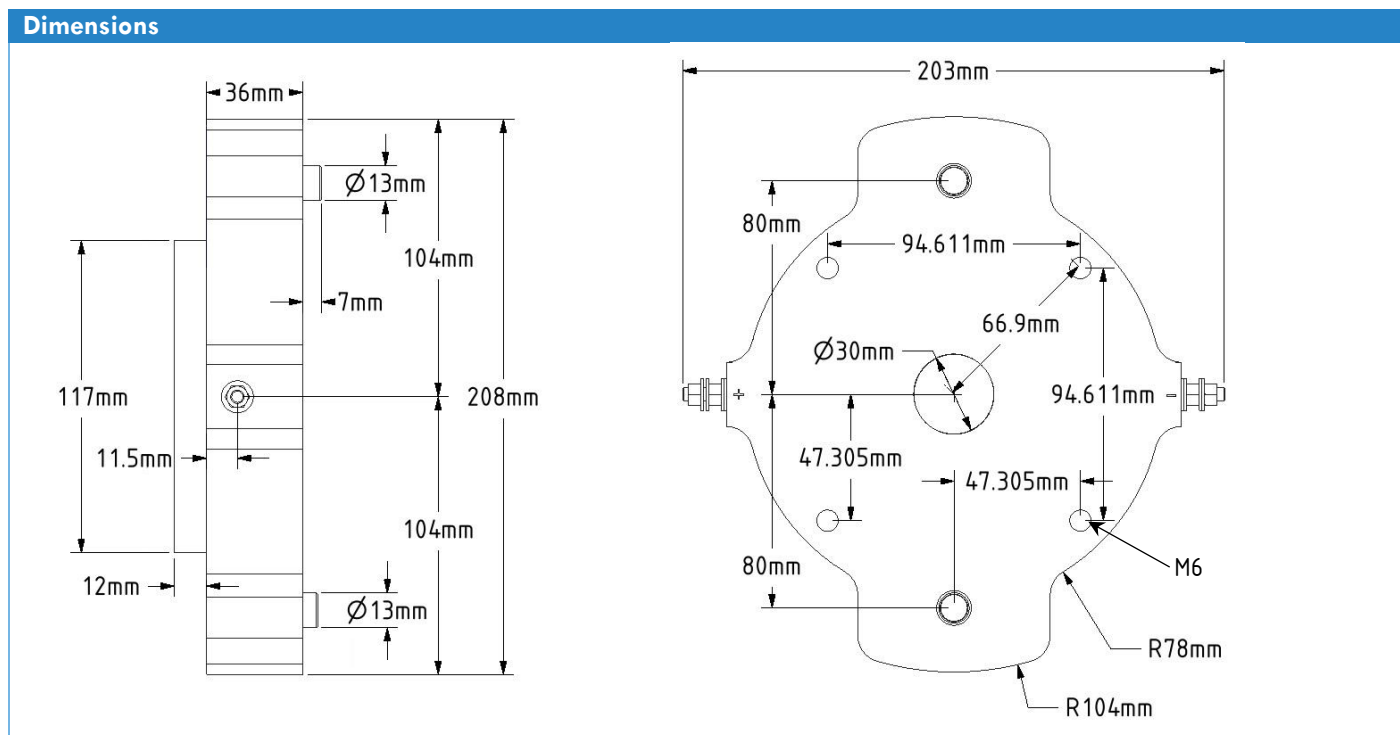
Data Sheet v.2.3

## Transmitter Unit - A1032

The Transmitter Unit is mounted onto a shaft flange at the exciter-end of the machine. The centre hole is provided for the shaft to extend to an oil pump, speed sensor, etc. An IR signal is transmitted to the PT unit in the axial direction.

Specifications	
Supply Voltage (Rotor Field)	58VDC – 250VDC
Max current consumption	70 mA
Max power consumption	12 W (250V)
External dimensions (W x H x D)	203mm x 208mm x 43mm
Weight	2kg
Rotor Insulation Threshold	< 6k $\Omega$
Operating Temperatures	-40°C to +90°C
Ingress Protection	Protected by machine IP rating
Enclosure Material	Aluminium
Mounting	Shaft face mounted
Shaft size extension diameter	30mm
Speed limit	3600rpm (4320rpm over speed, 2min)
Maximum Transmission Distance	100mm
Infra-red Dispersion Angle @ 66mm	$\pm 10^\circ$

Features	
Calibration	No calibration required
Testing	Any earth short-circuit applied
Durability	Robust epoxy resin filled unit



# PT Unit

The PT Unit is mounted onto the exciter frame where it reads the IR signal sent by the Transmitter Unit and sends a modulated signal to the Receiver Unit.

Specifications	
Supply Voltage (Powered by Receiver)	5VDC
External dimensions (W x H x D)	70mm x 70mm x 44.3mm
Weight	0.2kg
Material	Stainless Steel
Operating Temperatures	-40 to +90 °C
Vibration Resistance	10 to 150 Hz, 1.5-mm double amplitude
Shock Resistance	98 m/s <sup>2</sup> (approx. 10G)
Ingress Protection	IP68/NEMA4X

Features	
Calibration	No calibration required
Inputs	Receives IR signal from Transmitter
Outputs	Sends modulated signal to Receiver
Features	BNC connector to Receiver Unit
	2m cable supplied by PPI (10m max if specified)

