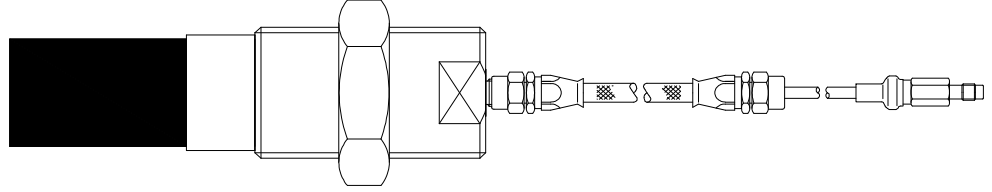


## SENTURION EDDY CURRENT PROBES



PRW12 Straight Mount Submersible Probe - Ø25mm TIP  
(Alternative to IRD 26401 Probe System)



- 500thou (12.7mm) measurement range
- Non contact measurement of static or dynamic surfaces
- Robust stainless steel threaded case, with integral locknut
- Submersible up to a pressure of 5bar
- HP thermoplastic tip, impervious to oil or water ingress
- Range of standard bracketry available, for mounting
- Choice of cable lengths with armoured conduit
- Connection directly to driver located in dry area enclosure
- Operating temperature range -30°C to +180°C

Sensonics range of **SENTURION** eddy current probes are designed to be the most robust and reliable units available, and are ideally suited to a vast range of industrial applications.

The **SENTURION** submersible eddy current probes are intended for use as an integrated probe for submersion in many static or dynamic fluids. The probes are supplied in tuned lengths, and connect directly to the driver located in a dry area enclosure. Stainless steel armoured conduit protects the cable from fluid ingress and damage. The probe and driver system connected are available in total lengths of 5 & 9 meters.

A free running locknut is supplied with the straight mount probes, which is used to lock the unit in position when mounted in a bracket or threaded through a bulkhead.

Sensonics can supply a range of ancillary items such as brackets, housing for probes and drivers, glands, as well as offer advice on probe applications and mounting.

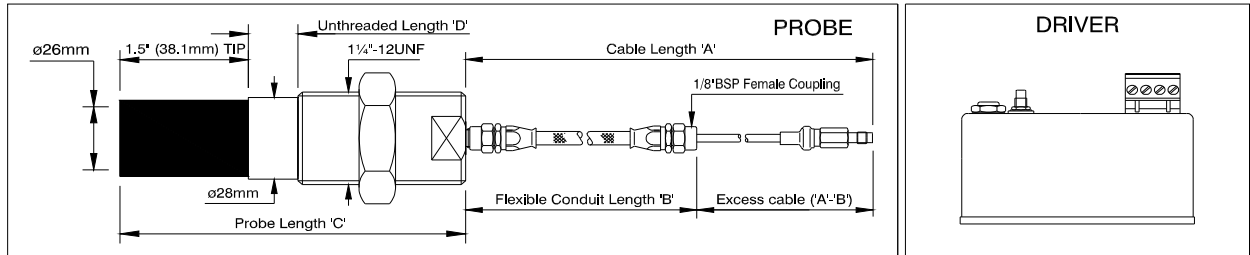
# SENTURION EDDY CURRENT PROBES

## STRAIGHT MOUNT SUBMERSIBLE TYPE - PRW 12 - Ø25mm TIP

### SPECIFICATION

Body material.....	Stainless steel 300 series
Tip material.....	PPS with epoxy & o-ring seal
Cable specification.....	RG179 PTFE insulated
Linear range - ± 1% of full scale.....	1 to 12.7mm (500mils)
Sensitivity.....	1.2mV/µm (30mV/thou)
Temperature sensitivity - Probe.....	Less than 5% at 120°C
- Driver.....	Less than 5% at 90°C
Output impedance.....	Less than 50Ω
Interchangeability.....	Less than 5%
Cal pot range.....	±5% or greater
Operating temperature - Probe.....	-30°C to +180°C
- Driver.....	-30°C to +90°C
Survival temperature.....	As operating temperature
Environmental Ingress protection.....	IP.68/66 5bar maximum
Power supply.....	-24Vdc at 35mA nominal (stabilised)
Power supply tolerance.....	5% on sensitivity/volt down to -20 volts
Frequency range.....	DC to 4kHz
Resolution (restricted by noise, drift & stability).....	0.01mm
Effect of target magnetism.....	Less than 1% at 110mT
Minimum target size.....	50mm diameter

### ORDERING INFORMATION



**PRW12/**

**ECD12/**

**A Cable Length** Probe cables may be up to 0.7m longer than stated.

- 1.0m (3.3ft) - (With male SMC connector F.U.W. extension cable)
- 5.0m (16.4ft) - (With female SMC connector for direct connection to driver unit)
- 9.0m (29.5ft) - (With female SMC connector for direct connection to driver unit)

**A Total system cable length**

- 5.0m system
- 9.0m system

**B Conduit Length** (feet)

- 2.5ft (30") (0.76m) stainless steel braided conduit. Minimum
- 28.5ft (342") (8.68m) stainless steel braided conduit. Maximum

**B Sensitivity**

- 30mV/thou (1.2mV/µm)

**C Probe Length** (Inches)

- 3.0" minimum
- 12.0" maximum

**C Mounting**

- Std Plate
- 35mm DIN rail

**D Unthreaded Length** (In increments of 0.1inch)

- 0 minimum
- 9.0" maximum

DS1155



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