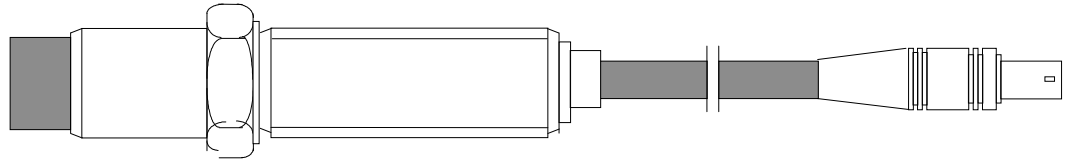


SENTURION EDDY CURRENT PROBES



REVERSE MOUNT TYPE - PRR 04 - Ø8mm TIP



- Measuring range 2.5 or 4mm
- Non contact measurement of static or dynamic surfaces
- Robust stainless steel threaded case, with integral locknut
- Peek encapsulated tip, impervious to oil or water ingress
- Suitable for reverse mounting in bracketry, or Sonosonics probe holder
- Choice of cable lengths with or without armouring
- Connection directly to driver or via an extension cable
- Operating temperature range -30°C to +180°C
- Intrinsically safe options available

Sonosonics 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** eddy current probes are intended for use within a system comprising of the probe, an extension cable (if required) and a driver unit. The probes are supplied in tuned lengths, and can be linked directly to the driver or via the afore mentioned extension cable. However the system is connected the total lengths must add up to 2, 5, 7, 9 or 14 metres.

The reverse mount probe is ideally suited to mounting in a probe housing, supplied by Sonosonics or reverse mounted in a suitable bracket.

Sonosonics 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.

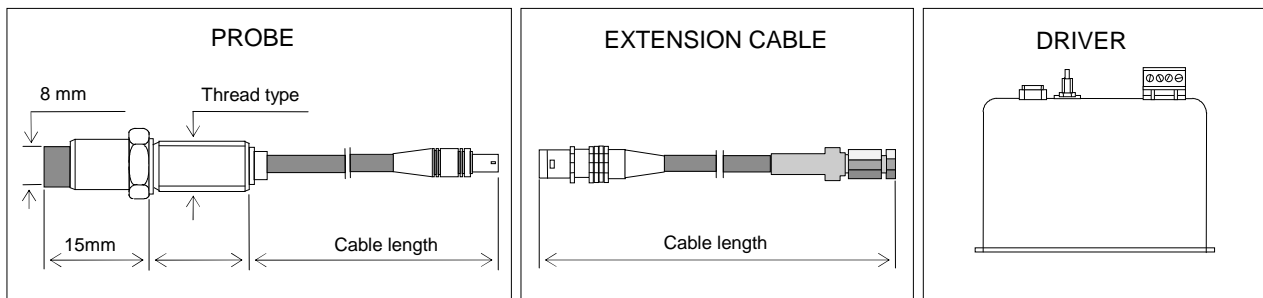
SENTURION EDDY CURRENT PROBES

REVERSE MOUNT TYPE - PRR 04

SPECIFICATION

Body material.....	Stainless steel
Tip material.....	PEEK with stycast potting
Cable specification.....	RG179 PTFE insulated
Linear range - $\pm 1\%$ of reading.....	0.25 to 2.25mm (For 2.5mm range)
- $\pm 1\%$ of full scale.....	0.125 to 2.5mm (For 2.5mm range)
Sensitivity.....	8mV/ μ m or (4mV/ μ m)
Temperature sensitivity - Probe.....	Less than 5% at 150°C
- Driver.....	Less than 5% at 90°C
Output impedance.....	Less than 50 Ω
Interchangeability.....	Less than 5%
Cal pot range.....	$\pm 5\%$ or greater
Operating temperature - Probe.....	-30°C to +180°C
- Driver.....	-30°C to +90°C
Survival temperature.....	As operating temperature
Power supply.....	-24Vdc at 30mA nominal
Power supply tolerance.....	-18Vdc to -30Vdc (linear range will be affected)
Frequency range.....	DC to 10khz
Resolution (restricted by noise, drift & stability).....	0.002mm
Effect of target curvature.....	+2% for $\varnothing 150$ mm
.....	+5% for $\varnothing 25$ mm
Effect of target magnetism.....	Less than 1% at 110mT

ORDERING INFORMATION



PRR 04 / 1.0 U 1 0 0

<u>Cable length</u>	0.5 - 0.5m
	1.0 - 1m
	9.0 - 9m
	14 - 14m (not for 4mm range)
<u>Cable protection</u>	U - Unarmoured (standard)
	A - Armoured
<u>Connector gender</u>	0 - SMC female for direct connection to driver
	1 - Lemo male for use with extension cable
	2 - SMC male for use with extension cable
<u>Thread type</u>	0 - 3/8" UNF (standard)
	1 - M10
<u>Range (Sensitivity)</u>	0 - 2.5mm (8mV/ μ m) (API1670)
	1 - 4mm (4mV/ μ m)

EXC / 4.0 A 0

<u>Cable length</u>	4.0 - 4m
	4.5 - 4.5m
	6.0 - 6m
	6.5 - 6.5m
	8.0 - 8m
	8.5 - 8.5m
<u>Cable protection</u>	A - Armoured
	U - Unarmoured
<u>Connector types</u>	0 - SMC female to SMC female (standard)
	1 - Lemo female to SMC female

ECD04 / 5 0

<u>Total system cable length</u>	2 - 2m
	5 - 5m
	7 - 7m
	9 - 9m
	14 - 14m (not for 4mm range)
<u>Range (Sensitivity)</u>	0 - 2.5mm (8mV/ μ m) (API1670)
	1 - 4mm (4mV/ μ m)

Note:
Total system lengths must add up to 2, 5, 7 or 9m (2m systems cannot include extension cables).
Probe system length may be up to 0.7m longer than stated.

L159



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