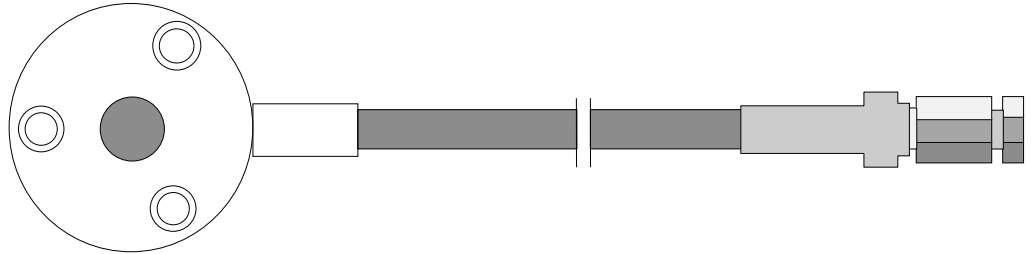


SENTURION EDDY CURRENT PROBES



DISC TYPE - PRD 04 - Ø8mm TIP



- Measuring range 2.5mm or 4mm
- Non contact measurement of static or dynamic surfaces
- Robust stainless steel case, with 2 or 3 mounting holes
- Peek encapsulated tip, impervious to oil or water ingress
- Range of standard bracketry available, for mounting
- Choice of cable lengths with or without armouring
- Connection directly to driver or via an extension cable
- Operating temperature range -30°C to $+180^{\circ}\text{C}$

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** 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 disc type eddy current probes are ideal for use where space is at a premium, or if a side exit cable is advantageous for ease of installation.

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

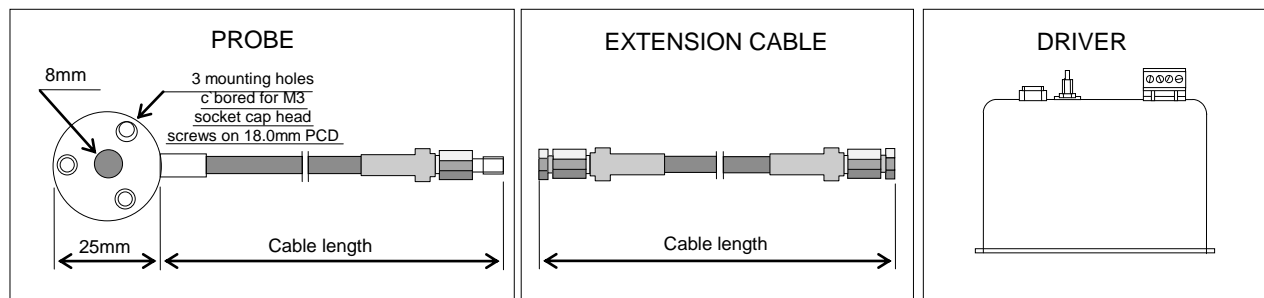
SENTURION EDDY CURRENT PROBES

DISC TYPE - PRD 04 - 8mm TIP

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 or (0.25-4mm)
- $\pm 1\%$ of full scale.....	0.125 to 2.5mm, For 2.5mm range or (0.125-4mm)
Sensitivity.....	7.87mV/ μm or 3.94mV/ μm
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 $\phi 150\text{mm}$
	+5% for $\phi 25\text{mm}$
Effect of target magnetism.....	Less than 1% at 110mT

ORDERING INFORMATION



PRD 04 / 1.0 U 1 0

Cable length

1.0 - 1m
2.0 - 2m
5.0 - 5m
7.0 - 7m
9.0 - 9m
14 - 14m

Cable protection

U - Unarmoured (standard)
A - Armoured
C - Conduit

Connector gender

0 - Female (for direct connection to driver)
1 - Male LEMO (for use with extension cable)
2 - Male SMC (for use with extension cable)

Range (Sensitivity)

0 - 2.5mm (8mV/ μm)
1 - 4mm (4mV/ μm)

EXC / 4.0 A

Cable length

4.0 - 4m
6.0 - 6m
8.0 - 8m

Cable protection

A - Armoured
U - Unarmoured

ECD 04 / 5 0 0

Total system cable length

2 - 2m
5 - 5m
7 - 7m
9 - 9m
14 - 14m

Range

0 - 2.5mm (8mV/ μm)
1 - 4mm (4mV/ μm)

Mounting

0 - std plate
1 - 35mm DIN rail

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.

L161



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