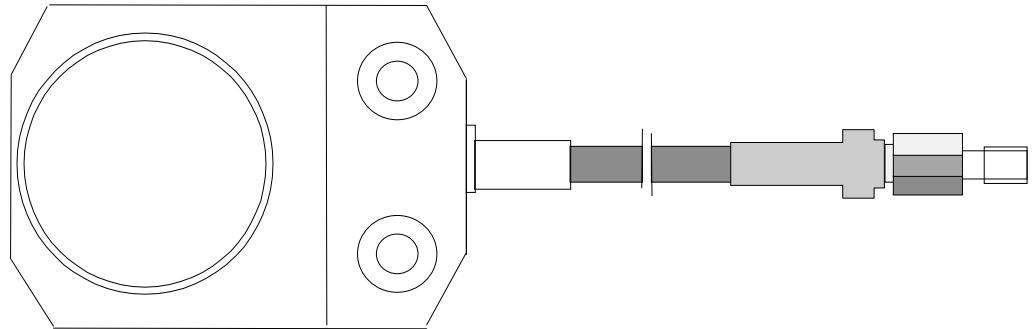


# SENTURION EDDY CURRENT PROBES

## DISC TYPE - PRD 18 - Ø40mm TIP



- 18mm measurement range
- Non contact measurement of static or dynamic surfaces
- Robust stainless steel case, with 2 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°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 or 9 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 ancillary items such as brackets, housing for probes and drivers, glands, as well as offer advice on probe applications and mounting.

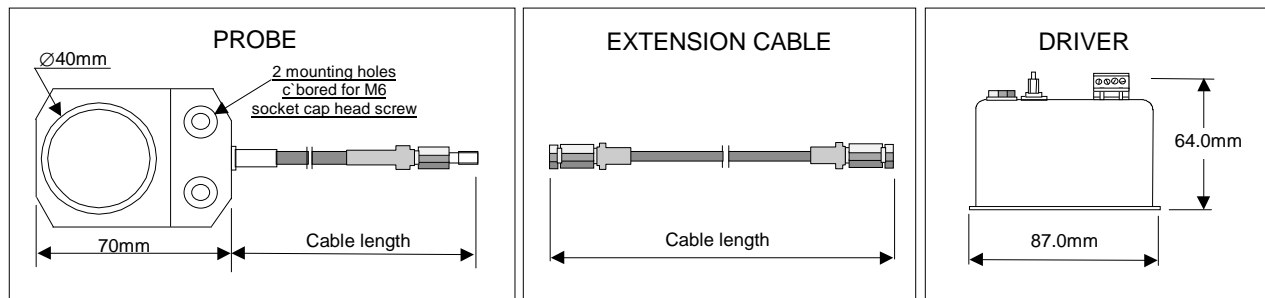
# SENTURION EDDY CURRENT PROBES

## DISC TYPE - PRD 18 - ø40mm TIP

### SPECIFICATION

|  |  |
|--|--|
| Body material.....                                       | Stainless steel                          |
| Tip material.....  | PPS with stycast potting                 |
| Cable specification.....                                 | RG179 PTFE insulated                     |
| Linear range - ± 1% of full scale.....                   | 2 to 18mm                                |
| Sensitivity.....   | 1mV/μm                                   |
| 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                 |
| Power supply.....  | -24Vdc at 35mA nominal (stabilised)      |
| Power supply tolerance.....                              | 2% on sensitivity/volt down to -20 volts |
| Frequency range.....                                     | DC to 4kHz                               |
| Resolution (restricted by noise, drift & stability)..... | 0.012mm                                  |
| Effect of target magnetism.....                          | Less than 1% at 110mT                    |

### ORDERING INFORMATION



**PRD 18 / 1.0 U 1**

Cable length

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

Cable protection

- U - Unarmoured (standard)
- A - Armoured

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)

**EXC / 4.0 A**

Cable length

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

Cable protection

- A - Armoured
- U - Unarmoured

**ECD 18 / 5**

Total system cable length

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

Note: Remember that total system lengths must add up to 2, 5, 7 or 9m. (2m systems cannot include extension cables). A specific 16.5m system is available, please ask our sales dept. for details. Probe cables may be up to 0.7m longer than stated.

\*Due to Sensonics' policy of constant improvement, designs may be subject to alteration without notice.