

**Extension Cable
Capacitance**

69.9 pF/m (21.3 pF/ft) typical

Field Wiring

0.2 to 1.5 mm² (16 to 24 AWG) .
Recommend using 3-conductor
shielded triad cable and tinned
field wiring. Maximum length of
305 metres (1,000 feet) between
the 3300 XL Proximitor Sensor
and the monitor. See the
frequency response graphs in
through Figure 13 (pages 27 and
28) for signal rolloff at high
frequencies when using longer
field wiring lengths.

Linear Range

2 mm (80 mils). Linear range
begins at approximately 0.25 mm
(10 mils) from target and is from
0.25 to 2.3 mm (10 to 90 mils)
(approximately -1 to -17 Vdc).

**Recommended
Gap Setting for
Radial Vibration**

-9Vdc [approximately 1.27 mm
(50 mils)]

**Incremental
Scale Factor
(ISF)**

*Standard
5- or 1- metre
System:*

7.87 V/mm (200 mV/mil) \pm 5%
including interchangeability error
when measured in increments of
0.25 mm (10 mils) over the 80 mil
linear range from 0 °C to +45 °C
(+32 °F to +113 °F).

*Standard
9-metre
System:*

7.87 V/mm (200 mV/mil) \pm 6.5%
including interchangeability error
when measured in increments of
0.25 mm (10 mils) over the 80 mil
linear range from 0 °C to +45 °C
(+32 °F to +113 °F).

*Extended
Temperature
Range (ETR)
for 5- and
9-Metre
Systems:*

7.87 V/mm (200 mV/mil) \pm 6.5%
including interchangeability error
when measured in increments of
0.25 mm (10 mils) over the 80 mil
linear range from 0 °C to +45 °C
(+32 °F to +113 °F).

Deviation from best fit straight line (DSL)

*Standard
5- or 1-metre
System:*

Less than ± 0.025 mm (± 1 mil) with
components at 0 °C to +45 °C
(+32 °F to +113 °F).

*Standard
9-metre
System:*

Less than ± 0.038 mm (± 1.5 mil)
with components at 0 °C to +45
°C (+32 °F to +113 °F).

*Extended
Temperature
Range 5 and
9-metre
Systems:*

Less than ± 0.038 mm (± 1.5 mil)
with components at 0 °C to +45
°C (+32 °F to +113 °F).

**Performance
over Extended
Temperatures**

*Standard
5- or 1-metre
System:*

Over a probe temperature range
of -35 °C to +120 °C (-31 °F to
+248 °F) with the Proximitor
sensor and extension cable
between 0 °C to +45°C (+32 °F to
+113 °F), the ISF remains within
 $\pm 10\%$ of 7.87 V/mm (200 mV/mil)
and the DSL remains within
 ± 0.076 mm (± 3 mils).

Probe Ordering Information Notes:

1. Mounting clamps must be ordered separately for 330140, 330141, 330197, and 330198.
2. For a shorter delivery time, order commonly stocked probes. The following part numbers are currently stocked probes:

330101-00-08-05-02-00, 330101-00-08-05-02-05,
330101-00-08-10-02-00, 330101-00-08-10-02-05,
330101-00-12-10-02-00, 330101-00-12-10-02-05,
330101-00-16-10-02-00, 330101-00-16-10-02-05,
330101-00-20-05-02-00, 330101-00-20-10-02-00,
330101-00-20-10-02-05, 330101-00-30-10-02-00,
330101-00-30-10-02-05, 330101-00-40-05-02-00,
330101-00-40-10-02-00, 330101-00-40-10-02-05,
330101-00-60-10-02-00, 330101-00-60-10-02-05,
330102-00-20-10-02-00, 330103-00-02-10-02-05,
330103-00-04-10-02-00, 330103-00-05-10-02-00,
330104-00-06-10-02-00, 330104-01-05-50-02-00,
330105-02-12-05-02-00, 330105-02-12-05-02-05,
330105-02-12-10-02-00, 330105-02-12-10-02-05,
330106-05-30-05-02-00, 330106-05-30-05-02-05,
330106-05-30-10-02-00, 330106-05-30-10-02-05.

Ordering Information Proximity Sensor

3300 XL Proximity Sensor**330180-AXX-BXX****A: Total Length and Mounting Option**

- | | |
|------------|------------------------------------------------------------|
| 1 0 | 1.0 metre (3.3 feet) system length, panel mount |
| 1 1 | 1.0 metre (3.3 feet) system length, DIN mount |
| 1 2 | 1.0 metre (3.3 feet) system length, no mounting hardware |
| 5 0 | 5.0 metre (16.4 feet) system length, panel mount |
| 5 1 | 5.0 metre (16.4 feet) system length, DIN mount |
| 5 2 | 5.0 metre (16.4 feet) system length, no mounting hardware |
| 9 0 | 9.0 metres (29.5 feet) system length, panel mount |
| 9 1 | 9.0 metres (29.5 feet) system length, DIN mount |
| 9 2 | 9.0 metres (29.5 feet) system length, no mounting hardware |

B: Agency Approval Option

- | | |
|------------|----------------------------|
| 0 0 | Not required |
| 0 5 | CSA, ATEX, IECEx approvals |