

Proximity Sensor Signal Conditioners

5510 (Radial Vibration) & 5516 (Position/Thrust)

PROXIMITY PRODUCTS



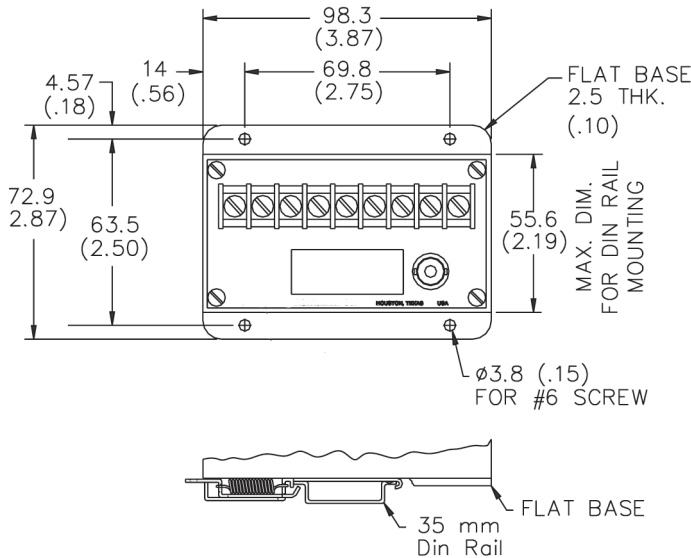
Convert proximity transducer system to a transmitter for connection to a PLC or DCS. Replace older monitor racks incrementally at low cost.

Features

- Easiest conversion of obsolete monitor racks on the market today
- Powers Metrix drivers or Bently Nevada Proximitors*
- Gives 4-20mA output proportional to vibration or position
- Dynamic signal is available at the signal conditioner or remotely

*Note: Proximitor is a registered trademark of Bently Nevada.

Weight & Dimensions



Weight:
0.5 kg (1.1 lb)

Height:
69.9 (2.75) max.
(with DIN-rail)

Dimensions
in mm [inches]

Specifications

PC Series Input Power: 18-30 VDC, 60 mA

Probe Driver Power Provided: -24VDC *

Input Signal: -8 mV/um (-200 mV/mil) from a proximity probe driver

Frequency Response (5510): 5 Hz-10 KHz

Test Output (AC & DC): -8 mV/um (-200 mV/mil), buffered

4-20 mA (Source) Output: Proportional to shaft radial vibration (5510). 4-20 mA proportional to shaft axial position (5516).

Sensor Malfunction: Output current driven below 3.6 mA and LED indicates either probe/cable not OK or probe gap is outside the linear range.

Max. Load Resistance (R_L): 600 ohms

Max. Current Draw: 40 mA

Full Scale Output Range (20 mA): See How To Select.

Isolation: 500 V, circuit to case

Temperature Limits: -51°C to +100°C

Housing: Polymer internally coated for EMI protection. 35 mm DIN-rail available.

Electromagnetic Compatibility: CE mark

How To Select

- 1) Verify Probe Driver is -8 mV/um (-200 mV/mil) and note -VDC required. 24 Vdc is standard. For 18 Vdc, add -18V to end of model number (see example).
- 2) Choose Model 5510 or 5516, desired 4-20 mA range and mounting style:

5510C - Radial Vibration

5510C - **Example (-24 Vdc):**
5510C-001-24V

A **Vibration Range (4-20 mA) / Mount**

0	0	1	= 0-5 mils (125 um), pk-pk/Base
1	0	1	= 0-5 mils (125 um), pk-pk/DIN-rail
0	0	2	= 0-10 mils (250 um), pk-pk/Base
1	0	2	= 0-10 mils (250 um), pk-pk/DIN-rail

5516C - Position (Thrust) Vibration

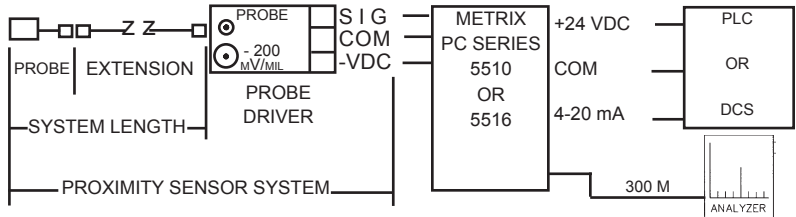
5516C - **Example (-18 Vdc):**
5516C-001-18V

A **Vibration Range (4-20 mA) / Mount**

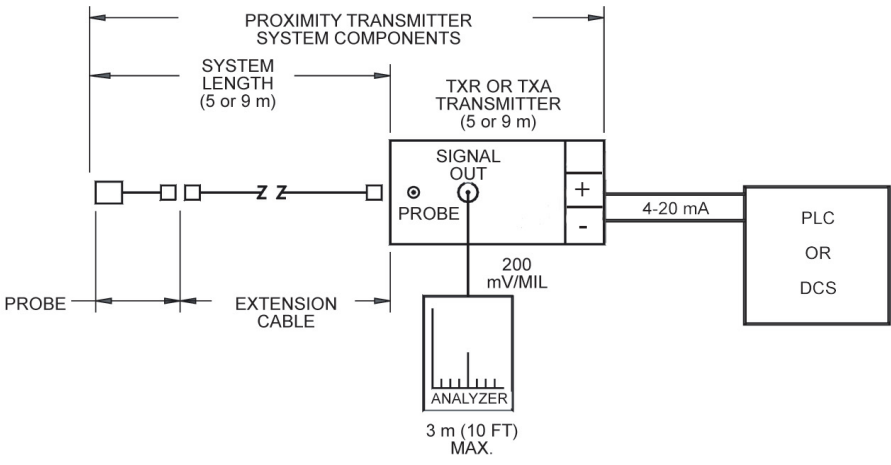
0	0	1	= ± 30 mils (± 750 um) Baseplate*
1	0	1	= ± 30 mils (± 750 um) DIN-rail*
0	0	2	= ± 20 mils (± 1000 um) Baseplate
1	0	2	= ± 20 mils (± 1000 um) DIN-rail

*not available with 18 Vdc option

5533 Driver & 5510/5516 Signal Conditioner



Trendsetter TXR/TXA Proximity Transmitters



PT5521 Loop-powered RPM Transmitter

