



Technical Service Bulletin (TSB) for the MX2033 Driver and Metrix MX2034 Transmitter – Field Wiring Practices Notice

Date of Occurrence: 1 May 2020
Supplier: Metrix Instrument Company
Part No/Serial/No: All
Severity: Low
RCA Leader: Matthew Webster

Issue:

When initially installing a Digital Proximity System (DPS) Unit, MX2033 Driver and or MX2034 Transmitter, it is important to use standard termination practices when installing field wiring or the wiring could become disconnected from the terminal block. It is also important to repeat those same procedures when removing the DPS Unit from the DIN Rail Mounting after initial installation, as it is possible for the field wiring to become disconnected from the Driver or Transmitter terminal block due to handling.

Details:

Given:

- a) The DPS Units are designed to accommodate solid core or stranded wire from 22 to 16 AWG gauge wire, 18 AWG is preferred.
- b) The DPS Units are designed for an ultimate strength 10 pound (4.5 kg) pull test. However, a pull test to the maximum specified is not appropriate to test the connection.
- c) After field wiring installation, or if handling the DPS Unit after the field wiring is installed, each individual wire should be pulled on with a 2 pound (1 kg) pull to ensure a positive connection.
- d) The probe extension cable connection to DPS connector should be checked and validated to be finger tight whenever the DPS Unit is handled.

Findings:

- e) Whether the DPS connectors are the push pin connector type or the screw terminal type, it is important to use industry standard termination wiring practices when connecting field wiring to the Unit.
- f) See DPS Installation Manual, Pages 8 & 9, for acceptable Field Wiring Methods.
<http://www.metrixvibration.com/products/proximity/digital-proximity-system/product/655/mx2033-3-wire-driver>

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