

TECHNICAL INFORMATION AND CALIBRATION PROCEDURE – NON-CONTACT TRANSMITTER
(A190203)

Mechanical Specification

Measurement Range	≤ 95° (indicated on transmitter label)
Linearity	≤ 1% of Full Scale
Repeatability	≤ 0.36°

Electrical Specification

Operating Voltage	12 ... 24VDC
Supply Current	4...20mA loop powered device
Reverse Polarity Protection	Yes
Over-Voltage Protection	Up to 28V
Output Signal	4...20mA
Load Impedance	$R < (U_{supply} - 9)/0.02$
Temperature Stability	< 80ppm
Operating Temperature	-40°C...+85°C
Storage Temperature	-40°C...+85°C

ATEX Information

U _i	28V
I _i	120mA
P _i	0.82W
C _i	0nF
L _i	5µH

Calibration

In order to calibrate the Non-Contact Transmitter within an Imtex Valve Position Monitor, take the following steps:

NOTE: The transmitter can be set for Clockwise or Anti-clockwise operation.

- Ensure the Valve Position Monitor is fitted to the actuator and wired up in accordance with the specific Installation Instructions supplied with the unit.
- Drive the actuator to the position that is to correspond to a 4mA transmitter signal.
- Press and hold button 'A'. The LED will turn on and then flash twice (one short and one long) to indicate the zero position is set.
- Drive the actuator to the position that is to correspond to a 20mA transmitter signal.
- Press and hold button 'B'. The LED will turn on and then flash twice (one short and one long) to indicate the zero position is set.
- The transmitter is now calibrated. To prevent accidental re-calibration, the zero and span positions cannot be overwritten without performing a factory reset.

Factory Reset

- Press and hold both pushbuttons A and B simultaneously for approximately 2 sec. The LED will flash twice (one short and one long) to indicate the factory reset has been performed.