

# AMS-3946

Non-Contact Displacement  
Sensors for Ferromagnetic  
Materials

## ADVANCED MAGNETIC SENSING

Position

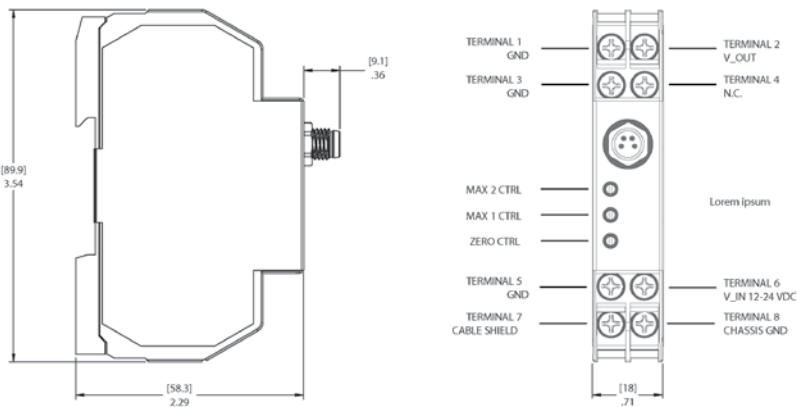
Distance

Runout



- *Detects Through Non-magnetic Barriers*
- *Operating Pressures 500 psi - 30,000 psi*
- *No External Magnet Required*
- *Standard Sensing Range 1 - 5 mm*
- *Extended Sensing Range to 9 mm*
- *Standard Cable Lengths 1 - 9 meters*
- *Simple 2-step Calibration Procedure*
- *IP67 Sensor Housing and Removable Cables*
- *IP40 Electronics Enclosure; #3 DIN Rail Mount*
- *All Welded Hermetic Custom Sensor Options*

# SIGNAL CONDITIONING ELECTRONICS AND SENSORS



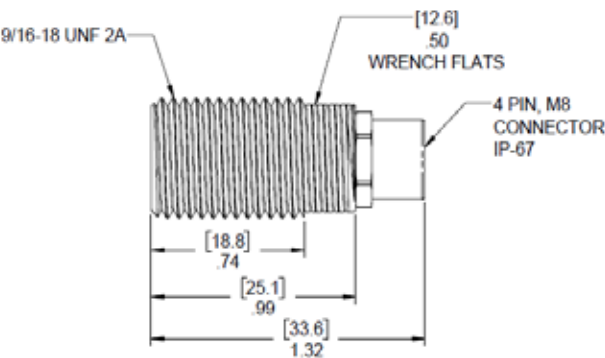
856030-001 SIGNAL CONDITIONING ELECTRONICS

## ELECTRONICS

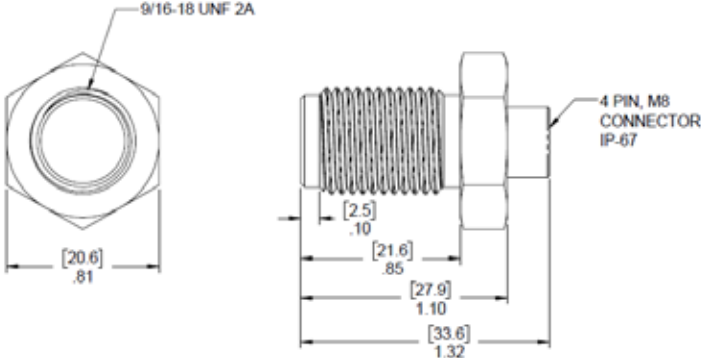
Input	12 - 28 VDC
Output	0 -5 VDC Std
Bandwidth	-3 dB @ 5 kHz
Resolution	> 0.2 mm
OpTemp	0 °C - 50 °C

## SENSORS

Range	1 - 5mm standard
Offset	0.13mm min
Op Pressure	500 psi standard
Op Pressure	30,000 psi optional
Op Temp	0 °C - 80 °C



856035-001D THREADED SENSOR



856036-001D PRESSURE PORT

## AMS PERFORMANCE CHARACTERISTICS

AMS Series Typical Output and Resolution vs Range

