DWG NO.	SH	REV D

REVISIONS

ZONE	REV	DESCRIPTION	DATE	APP
	A	PIN 2 WAS NO CONNECTION AND PIN 4 WAS SUPPLY VOLTAGE COMMON.	9/13/11	JD
	B	CORRECTED MTG DIM FOR DIN RAIL (WAS 22.5MM)	10/25/12	MB
	C	UPDATED LOGIC 0 AND LOGIC 1	1/23/14	JB
	D	UPDATED DRAWING FOR HOLE OFFSETS	7/15/14	NM

SPECIFICATIONS

INPUT POWER: 8 TO 30 VDC, 50mA MAX.
REVERSE POLARITY PROTECTED

MAG (VR) SENSOR INPUT
- INPUT PROTECTED, RF AND BAND PASS FILTERED
- INPUT FREQUENCY: 2 Hz TO 10 KHz, USER-ADJUSTABLE TRIGGER LEVEL TO ELIMINATE FALSE PULSING
- INPUT IMPEDANCE: 40K OHMS (NOMINAL)
- MAX. INPUT SIGNAL: 60.0 V RMS
- MAX. DISTANCE FROM SENSOR TO AMPLIFIER: 100'

RF SENSOR INPUT
- MODULATION CARRIER FREQUENCY: 25 KHz
- INPUT FREQUENCY: 2 Hz TO 5 KHz
- PREFERRED COIL INDUCTANCE: 1.0 mH +/- 10%
- MAX. DISTANCE FROM SENSOR TO AMPLIFIER: 100'

PULSE OUTPUT: (SELECT ONE)
- OPEN COLLECTOR
- TTL/CMOS
- 0 TO 10 VDC SQUARE WAVE
- SUPPLY TRACKING;
  LOGIC 0: $\leq$ 0.4 VDC
  LOGIC 1: $\geq$ V SUPPLY - 0.2 VDC

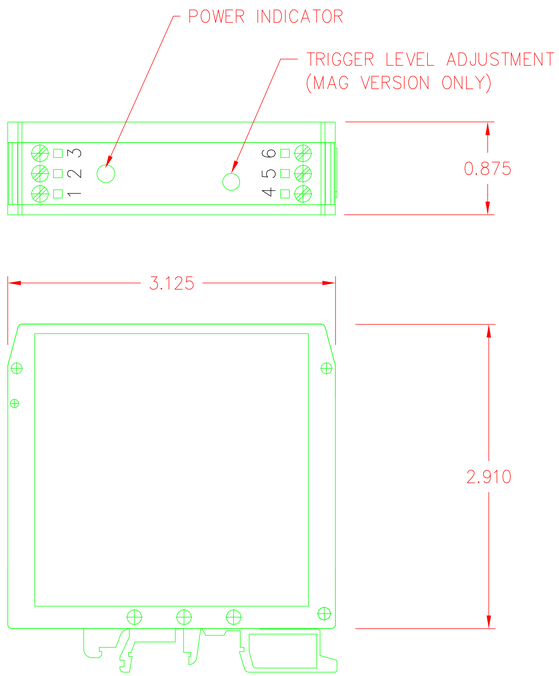
OPERATING TEMPERATURE RANGE: -40° TO 85°C

ELECTRICAL CONNECTIONS: SCREW TERMINALS SUITABLE FOR 24 TO 12 AWG WIRE

MOUNTING: NS 35/7,5 AND NS 35/15 DIN-RAIL

WIRING DETAIL:
PIN 1 = 8 TO 30VDC SUPPLY VOLTAGE (+)
PIN 2 = POWER/PULSE COMMON
PIN 3 = PULSE OUTPUT
PIN 4 = COMMON/SHIELD
PIN 5 = TO PICKUP
PIN 6 = TO PICKUP

CE COMPLIANT TO EMC DIRECTIVE 2004/108/EC FOR USE IN RESIDENTIAL, COMMERCIAL, LIGHT INDUSTRIAL AND HEAVY INDUSTRIAL ENVIRONMENTS.



PA7 AND PA8 MODEL NUMBERS

MODEL NUMBER	DESCRIPTION
PA7-1DN	RF, 5V DIN MOUNT
PA7-2DN	RF, 10V DIN MOUNT
PA7-3DN	RF, O.C. DIN MOUNT
PA7-4DN	RF, SUPPLY TRACKING DIN MOUNT
PA8-1DN	MAG, 5V DIN MOUNT
PA8-2DN	MAG, 10V DIN MOUNT
PA8-3DN	MAG, O.C. DIN MOUNT
PA8-4DN	MAG, SUPPLY TRACKING DIN MOUNT

NEXT ASSY	USED ON
APPLICATION	

MATERIAL

FINISH

CONFIDENTIAL PROPERTY OF MOTION SENSORS, INC. (MSI) NOT TO BE DISCLOSED TO OTHERS, REPRODUCED, OR USED FOR ANY OTHER PURPOSE, EXCEPT AS AUTHORIZED IN WRITING BY MSI. MUST BE RETURNED ON DEMAND.

APPROVALS		DATE
DRAWN	JDEFEO	5/26/11
CHECK	M. BERGMAN	9/8/11
ISSUED	JDEFEO	9/8/11

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES OTHER THAN THE SIZE OF RAW MATERIAL SHALL BE HELD AS FOLLOWS:
2 PLACE DECIMAL ± .01
3 PLACE DECIMAL ± .005
FRACTIONAL ± 1/64
ANGULAR ± 1/2 °

MOTION SENSORS, INC.
ELIZABETH CITY, NC 27909

TITLE
SPECIFICATION DRAWING;
MAG OR RF PICKUP AMPLIFIER, DIN RAIL MOUNT
PA7 AND PA8 SERIES

SIZE	CAGE CODE	DWG NO	REV
C	OY2U4	PA7 AND PA8 SERIES	D

SCALE NONE SHEET