

Installation Instructions for the RDS-CL-08 Railwheel Sensor Bracket

ISSUE 3

PK 80101

⚠ WARNING

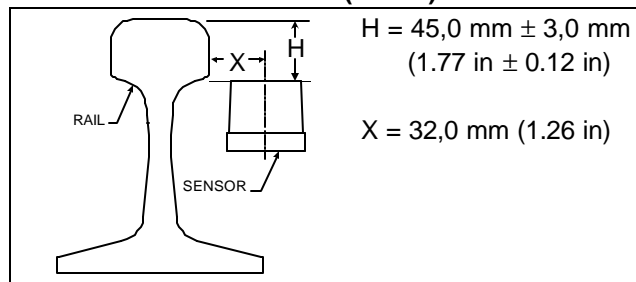
PERSONAL INJURY

- **DO NOT USE** this product in applications where product failure could result in personal injury or death.
- Improper installation of this device can cause personal injury. **STRICTLY FOLLOW** the instructions below.

MECHANICAL SPECIFICATIONS

| | |
|-----------------------|---|
| Operating Temperature | -40 °C to +85 °C (-40 °F to +185 °F) |
| Shock | 500 g, halfsine 1.6 msec (IEC68-2-27) |
| Vibration | Sinusoidal 10-2000 Hz, 20 G, (IEC68-2-6) 30 minutes each axis for temperatures -40 °C, +25 °C, +85 °C |
| Mounting Torque | Bracket mounting bolts: 33,9 N m (35 ft lb) Sensor clamp mounting bolts: 9,5 N m (7 ft lb) |

FIGURE 1: RAIL PROFILE (mm/in)



MOUNTING INSTRUCTIONS (see Figures 1-3)

1. Select sensor mounting location.
2. Grind all overflow from top and sides of rail.
3. Drill two holes exactly 84,1 (3.31 in) from top of rail and 351,8 mm (13.85 in) apart. Distance H must be 42 mm to 48 mm (1.65 in to 1.89 in).
4. Mount bracket using two 3/8 in bracket mounting bolts, two 3/8 in lockwashers, and two 3/8 in hex nuts. Torque to 33,9 N m (35 ft lb).
5. To install one sensor (Single Mount): Position sensor between the two holes marked **1** on top of the bracket so that distance X is 32,0 mm (1.26 in). Place two 5/16 in sensor clamp mounting bolts, threaded end up, through the two holes marked **1**. Place two sensor clamp mounting brackets, two 5/16 in lockwashers, and two 5/16 in castlenuts on the bolts and torque to 9,5 N m (7 ft lb). Install two 3/64 in cotter pins in holes provided and secure.
6. To install two sensors (Dual Mount): Position the sensors above the two outside holes marked **2** on top of the bracket so that distance X is 32,0 mm (1.26 in). Place three 5/16 in sensor clamp mounting bolts, threaded ends up, through the three holes marked **2**. Place three sensor clamp mounting brackets, three 5/16 in lockwashers, and three 5/16 in castlenuts on the bolts and torque to 9,5 N m (7 ft lb). Install three 3/64 in cotter pins in holes and secure.
7. As rail wears, use mounting slots on bracket to readjust sensor assembly.

FIGURE 2: MOUNTING DIMENSIONS (for reference only) (mm/in)

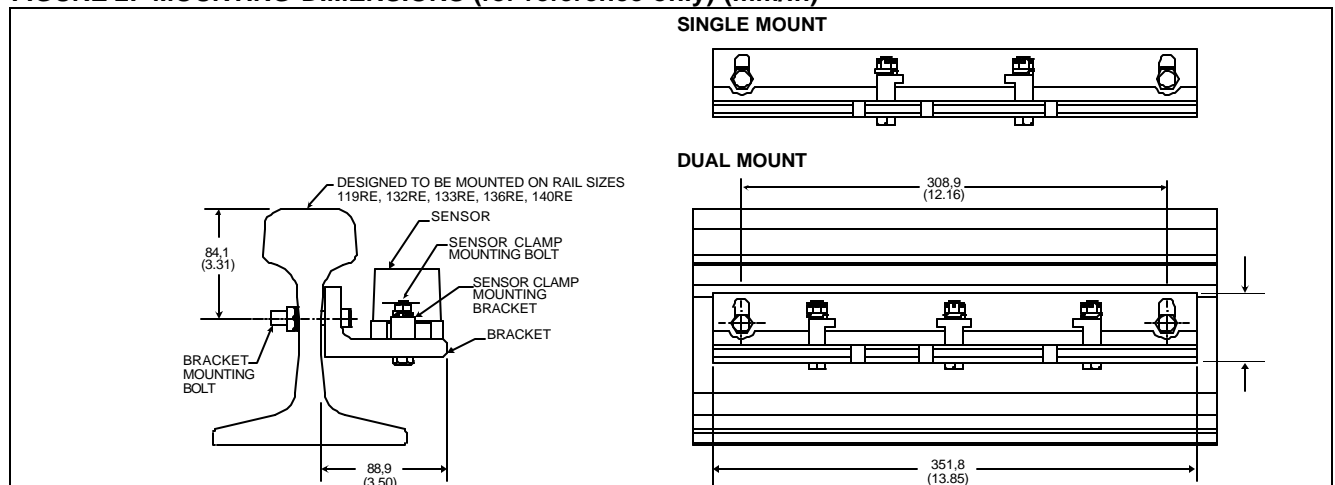
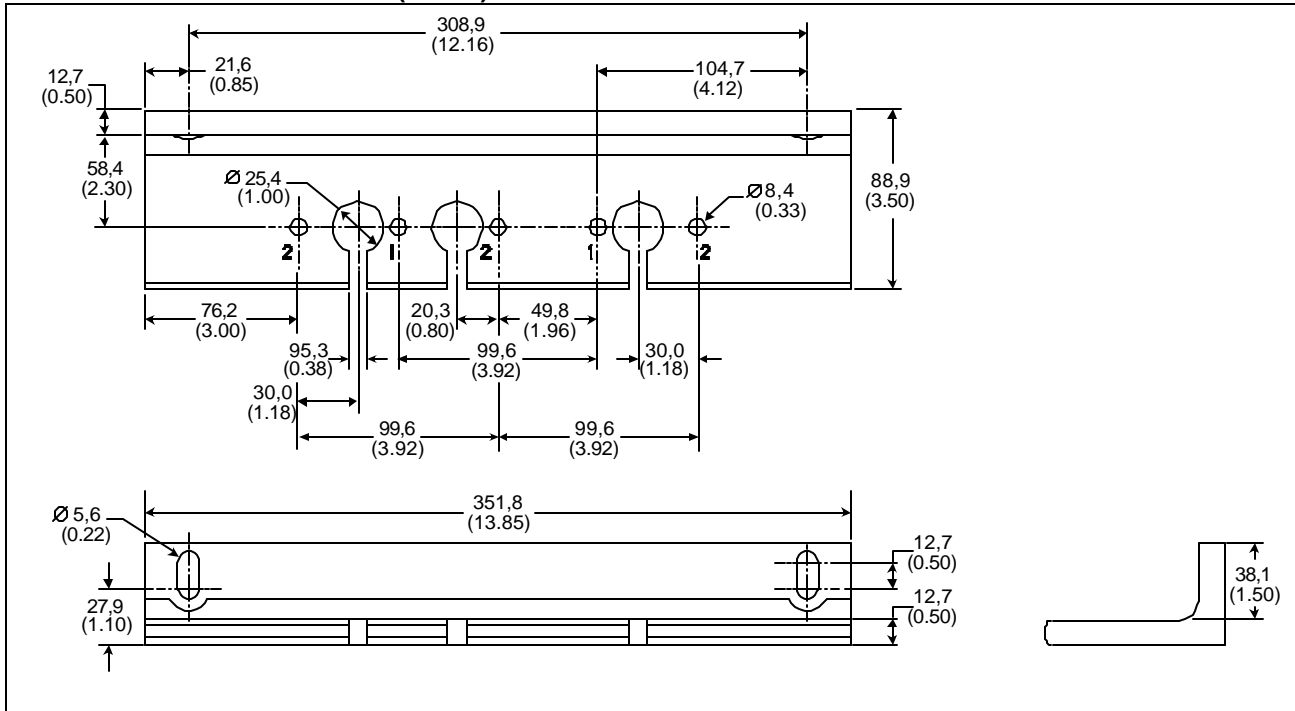


FIGURE 3: HOLE PLACEMENT (mm/in)

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Printed with Soy Ink
on 50% Recycled Paper

PK 80101-3-EN IL50 NAM 0303 Printed in USA

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