

# PORTABLE TRAIN DETECTOR KIT

Roadway Worker Protection System



**PROTRAN**  
TECHNOLOGY

A Harsco Rail Company



## DESCRIPTION

The Portable Train Detector Kit includes the Portable Train Detector, the Personal Alert Device (PAD), and the Portable Warning Light/Horn (PWLH). This unit is used to alert track work crews of an approaching train. The Portable Train Detectors are magnetically mounted to the rail at the limits of the work zone. When a train passes the Portable Train Detector, an alert is sent to the PADs and PWLHs that a train is approaching to give the crew time to clear the tracks. The system can alert work crews on occupied or adjacent tracks. The system is used as a secondary warning to add a layer of safety to existing agency's procedures.



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## Roadway Worker Protection System

### SPECIFICATIONS

Portable Train Detector	
Battery life	12-24 hours (depending on number of alerts)
Tx / Rx range HI-RES	800-3000 ft & meets FRA 15 second rule*
Enclosure	Polycarbonate / IP51 (IP65 option), NEMA 4, 4x
Operating temperature	-40°C to +85°C
Dimensions / weight	6¾" x 10¼" x 5½" (17 x 26 x 14 cm) / 5 lbs (2 kg)

Portable Warning Light & Horn	
Battery life	12-24 hours (depending on number of alerts)
Range	800-3000 ft & meets FRA 15 second rule*
Sound output	107-118 dB @ 3 feet adjustable
Dimensions / weight	7" x 8¾" x 5½" (17¾ x 22¼ x 14 cm) / 5 lbs (2 kg)

Personal Alert Device (PAD) & Headset	
Battery life	12-24 hours (depending on number of alerts)
Range	800-3000 ft & meets FRA 15 second rule*
Sound output	94 dB @ 1 foot
Enclosure	ABS plastic (with IP66 option) & sealed membrane
Dimensions / weight	3¼" x 3¾" x 1¾" (8 x 9½ x 4½ cm) / ½ lb (230 g)

Flagger Device (FD) & Headset	
Battery life	12-24 hours (depending on number of alerts)
Range	800-3000 ft & meets FRA 15 second rule*
Sound output	94 dB @ 1 foot
Enclosure	ABS plastic (with IP66 option) & sealed membrane
Dimensions / weight	3¼" x 3¾" x 1¾" (8 x 9½ x 4½ cm) / ½ lb (230 g)

5-Port PAD / Flagger Charge Station	
Charges	PAD and Flagger devices
Dimensions / weight	22" x 3" x 1½" (56 x 7½ x 4 cm) / 4½ lb (2 kg)

\*Distances can be changed upon request



PT-0501



PT-0401



PT-0704 PT-0700EP



PT-0702 PT-0700EP



PT-0801

### APPLICATIONS

- Advance warning to train operator of work crew ahead
- Advance warning to HY-RAIL operator of workers ahead
- Advance warning to work crew of approaching train
- Advance warning to trespassers of approaching train
- Audible and visual warnings

### APPROVALS

- United States (FCC): OUR-XBEE\*
- Canada (IC): 4314A-XBEE\*
- Europe (CE): ETSI\*
- Europe: RoHS / WEEE (upon request)\*

\*Specific to radio only

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03/28/2017