

SHOVE AND COUPLING WARNING

Vehicle to worker advance warning



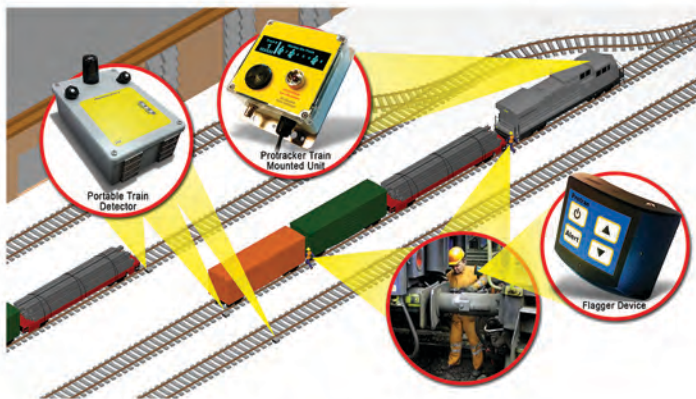
PROTRAN
TECHNOLOGY

A Harsco Rail Company



DESCRIPTION

The Shove and Coupling Warning system serves two vital functions. First, the system gives a warning to the locomotive operator when the locomotive has reached the stopping location needed for the rail cars to be coupled or uncoupled. Second, the system allows the track engineer or track worker to get the attention of the locomotive operator when they are in a dangerous location where they have begun to move in between the rail cars to couple and uncouple them. This gives a secondary warning to the locomotive operator to know when it is unsafe and safe for the train to begin moving.



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SPECIFICATIONS

Collision Avoidance System (CAS)

Input voltage	18-75 VDC
Tx / Rx range HI-RES	800-3000 ft & meets FRA 15 second rule*
Sound output	66-94 dB @ 3 feet adjustable
Enclosure	Polycarbonate / IP51 (IP65 option), NEMA 4, 4x
Operating temperature	-40°C to +85°C
Dimensions / weight	4¾" x 4¾" x 2¼" (12 x 12 x 6¾ cm) / 1¼ lbs (½ kg)

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)

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



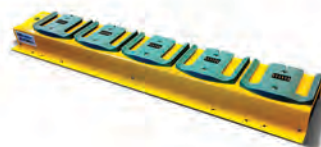
PT-0204



PT-0501



PT-0702 PT-0700EP



PT-0801

BENEFITS

- Hand shake failsafe warning
- User friendly - seconds to install
- Light weight - less than 5 lbs
- LED display to locomotive engine
- Audible and visual warning

APPLICATIONS

- Locomotive stop advance warning
- Coupling advance warning

APPROVALS

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

*Specific to radio only

The Protran Technology, Harsco Rail equipment pictured in this brochure is intended to illustrate the general appearance and features of this product. It is equipped as specified by a particular customer and may or may not show items that are optional or recommended by Protran Technology, Harsco Rail. Specifications, illustrations, and descriptive materials herein were accurate as known at the time this publication was approved for printing. Protran Technology, Harsco Rail reserves the right to discontinue models or options at any time or change specifications and materials, equipment and design without notice and without incurring obligation. Protran Technology, Harsco Rail, is not responsible for operators, workers, and/or pedestrians that ignore or disregard the secondary warning, audible and visual alerts from the system. Contact Protran Technology for warranty information. For operation, refer to the Protran Technology operation manual.

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