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BRAUMS R2X

Innovative

User Friendly

Seamless loop replacement

Traffic controller integration

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BRAUMS R2X - RAPID INDUCTIVE LOOP REPLACEMENT

Why R2X?

Powered by smartmicro traffic sensors, BRAUMS R2X seamlessly emulates inductive loops for a multitude of detection and measurement applications. Designed and developed in Australia, BRAUMS R2X is the purpose-built interface between smartmicro sensors and the traffic controller, reducing installation time and complexity.

Utilising existing infrastructure

By using smartmicro's software to easily place virtual detection zones, R2X enables the existing intersection to be easily upgraded with modern above ground detectors without modification to the controller personality, reducing maintenance cost, downtime, and improving reliability.
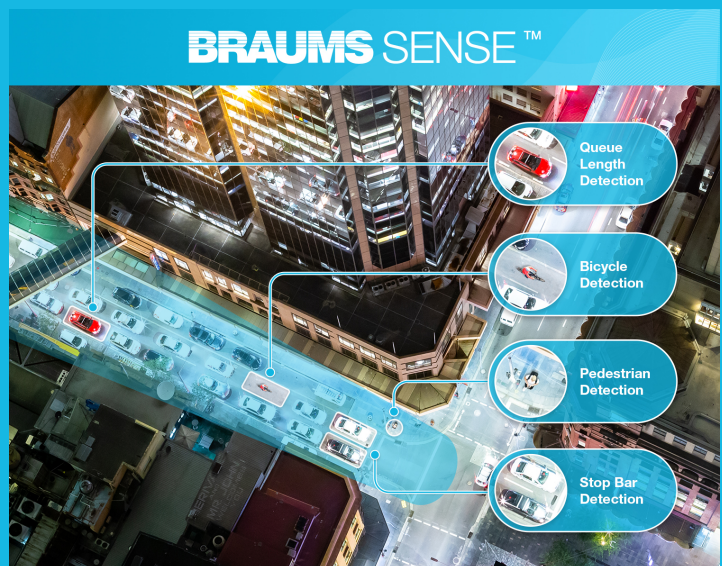
For new installs

Utilise R2X at a new installation for decreased in cabinet wiring, and plug and play functionality.

No Controller Modification

Loop alternates often interface via the controllers' relay input. This methodology requires the controllers' zones to be remapped, adding cost and delay to your project.

By emulating existing loops, R2X alleviates the need for modifications to the controller and its personality, enabling plug and play functionality with TSI-SP-69 controllers.

BRAUMS SENSE ™

- Queue Length Detection
- Bicycle Detection
- Pedestrian Detection
- Stop Bar Detection

Key Benefits

Seamless loop replacement

The R2X enables loop replacement, reducing maintenance cost and down time

Plug and play

With the same hardware interface as TSI-SP-69 detector cards, R2X plugs directly into existing in-cabinet wiring.

Reduces in cabinet wiring

By using in cabinet wiring, the number of landed cables is reduced, 32 to 1.

Technical Description

Virtual zones are placed at the intersection using software. When the intersection is pre-exsisting these zones are placed 1:1 mapping with the pre-existing detectors, removing the need for modification to the controller. These zones correspond to a virtual relay, triggered when vehicle presence (or other) are registered. R2X receives data from smartmicro sensors, and sniffs for the virtual relay. When found, R2X converts this presence/detection data into a change in inductance, which the traffic controller then measures and registers as vehicle presence. Similarly, virtual relays can be mapped to up to 6 physical relays on R2X for special use cases.
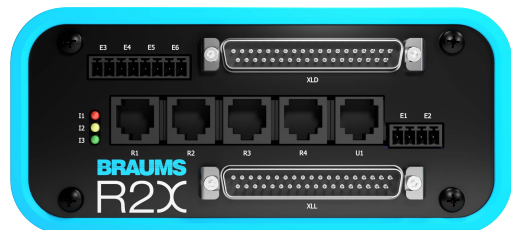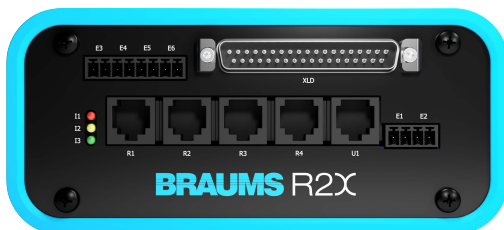
Product Variants

R2X1016:

- o 4 sensors
- o 16 loops
- o 6 Relay outputs

R2X1032:

- o 4 sensors
- o 32 loops
- o 6 Relay outputs

Rear View

Additional Features

Device server functionality

The R2X acts as a device server, offering remote configuration, debugging and access to rich real time vehicle data you desire.

Quick and Easy installation

With a purpose built design, and plug and play features, R2X will be up and running in minutes.

Robust Design

The 3mm 6063 extruded housing is banded in silicone, which keeps R2X looking good, and well protected for its life.

PART NO.	DESCRIPTION
R2X1016	R2X 16 WAY
R2X1032	R2X 32 WAY

Need more Information?

For further technical information about BRAUMS R2X, including details about installation, Mounting Hardware, Electrical Requirements, Wiring, please download BRAUMS R2X installation guide.
For our R2X configuration utility please contact us below.

Quality ISO 9001 — SAI GLOBAL
OHS ISO 45001 — SAI GLOBAL
Environment ISO 14001 — SAI GLOBAL