

Product Specification

M120

Interface Card

The M100 wireless vehicle detection system uses embedded in-road sensors to detect the presence and movement of vehicles.

This provides a more reliable, lower cost and easy to install alternative to traditional inductive loops.

Sensors wirelessly transmit real time data via low power secure radio technology to a nearby M110 access point feeding one or more local or remote traffic management controllers or systems using the M120 Interface Card.

The M120 Interface Card provides four detection channels; each comprising of an optically isolated contact closure relay for maximum reliability in both normally closed (n/c) and normally open (n/o) configurations.

An additional master fault relay (n/c and n/o) is also provided. Up to 64 interface cards can be daisy-chained together via the front panel connectors to support more sensors. Multiple cards may also be used if the traffic controller detector rack has pre-defined functions or phases for each slot.

Configuration

Each M100 sensor can be mapped to its own individual channel or up to 15 sensors can be mapped to a single channel to effectively "OR" the sensor signals together so that on vehicle detection the contact closure relay will close.

Key Benefits

- Reduced installation costs
- Ease of system installation, no loop cutting or trenching required
- More cost effective than traditional inductive loops
- Increased reliability compared to traditional inductive loops
- Easy configuration using Traffic Dot (Java Application)

The Clearview Intelligence wireless vehicle detection system can therefore be easily configured to replicate the way traditional inductive loops interface with a traffic controller. vehicles per day, there is sufficient memory capacity to record data for over two months.

Easy to use

Status, detection and fault LEDs are provided on the front panel. A power consumption reduction feature disables the LEDs after a preset time with simple push button reactivation. Card reset may be initiated either by the front panel reset button, a power down/power up sequence or by the reset input on the connector.

Key Features

- Standard 3U rack size contact closure card
- Four detection channels per card
- Selectable presence time
- Traffic light controller manufacturer independent to ensure compatibility
- Replicates traditional inductive loop inputs
- Optically isolated contact closure signals (n/c and n/o)
- On site verification buzzer to assist installation
- Type approved to UK HA specification TR2512A
- Power saving LED display mode



APPLICATIONS

BACK PLANE CONNECTOR PINNING DIN41612 TYPE B

Pin No.	Row A	Row B
1	CH 1 N/C Relay Output	
2		CH 1 Common Relay Output
3	CH 1 N/O Relay Output	
4		Master Fault Relay Output N/C
5		
6		
7	Master Fault Relay Output N/O	
8		CH 2 2N/C Relay Output
9	CH 2 Common Relay Output	
10		CH 2 N/O Relay Output
11	Master Fault Relay Output Common	
12		
13		
14		Earth
15	CH 3 N/C Relay Output	
16		CH 3 Common Relay Output
17	CH 3 N/O Relay Output	
18		24V AC Supply
19		
20		
21	24V AC Supply	
22		CH 4 N/C Relay Output
23	CH 4 Common Relay Output	
24		CH 4 N/O Relay Output
25		
26		
27		
28		
29	Reset Input	
30		+24 V DC Supply
31		
32		0V DC Supply

Specifications

USER INTERFACE

RESET Card reset

MODE Enable LEDs; channel buzzer assignment/enable/disable

BUZZER Assignment to any channel; sound when presence detected

LEDs OK, Detect, Fault, RX

6 WAY DIP SWITCH Select address (0 to 63)

PHYSICAL

STANDARD 3U SINGLE EXTENDED EUROCARD OUTLINE 160mm x 100mm x 25mm (nominal)

NUMBER OF CHANNELS Four optically isolated (n/c and n/o)

SENSITIVITY 16 levels

MASTER FAULT Isolated output (n/c and n/o)

CONFIGURATION With Traffic Dot software via front panel RJ45 (ethernet port)

ACCESS POINT CONNECTION Via connection on front panel

POWER INPUT

VOLTAGE

OUTPUT VOLTAGE 48VDC 6W max (Access Point power)

ENVIRONMENTAL

OPERATING TEMP -15°C to +60°C (5°F to +140°F)

HUMIDITY 95% (non condensing)

Designed to meet mechanical and temperature requirements of TR2130C and European specification HD638

COMPLIANCE AND COMPATIBILITY

CE Marked
Meets UK specification TR2512A
Meets electrical safety requirement EN 60950
Electro Magnetic Compatibility (EMC) tested to EN 50293

