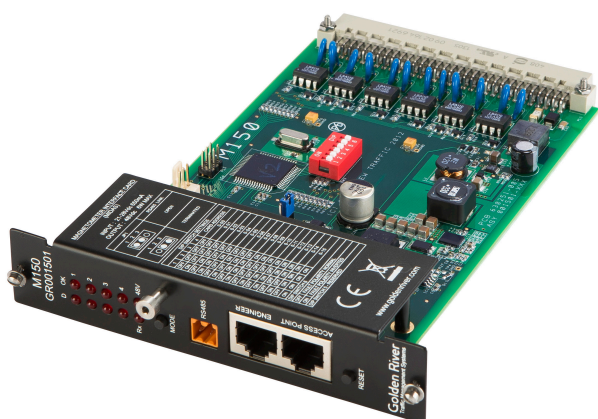


M150 Contact Closure Card



The M150 MIDAS interface card provides four detection channels suitable for two lanes each comprising of an optically isolated contact closure relay for maximum reliability in both normally closed (n/c) and normally open (n/o) configuration and is switchable between different manufacturers of MIDAS outstation to give compatibility via a single interface card.

Up to 16 interface cards can be daisy-chained together via the front panel connectors to support more sensors across multiple lanes.

Configuration

M100 sensors, two per lane at 4.5m spacing are mapped to their own individual channel so that on vehicle detection the contact closure relay will close. The Clearview Intelligence wireless vehicle detection system can therefore be easily configured to replicate the way traditional inductive loops interface with a MIDAS outstation.

Status, detection and power 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.

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, RX, 48V
6 Way Dip Switch	Select address (0 to 16) and outstation type fault polarity

Physical

Standard 3U Single Extended Eurocard Outline	170mm x 128.6mm x 25mm (nominal)
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Number of Channels	Four optically isolated (n/c and n/o) for two lanes
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Sensitivity	16 levels
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Configuration	With TrafficDot software via front panel RJ45 (ethernet port)
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Access Point Connection	Via connection on front panel
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Power

Input Voltage	Via MIDAS outstation backplane DC - 19-29 VDC 550mA or AC - 21-28 VAC 800mA 47-63Hz
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Output Voltage	48VDC 6W max (Access Point power)
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Elxon Code	83 9000 5000 100
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Environmental Operating Temperature	-15°C to +60°C (5°F to +140°F)
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Humidity	95% (non condensing)
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Designed to meet mechanical and temperature requirements of TR2130C and European specification HD638

Compliance and Compatibility

CE Marked

Approved to UK HA specification TR2512A and MCH1529

Meets electrical safety requirement EN 60950

Electro Magnetic Compatibility (EMC) tested to EN 50293

Backplane connector pinning and diagram

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

