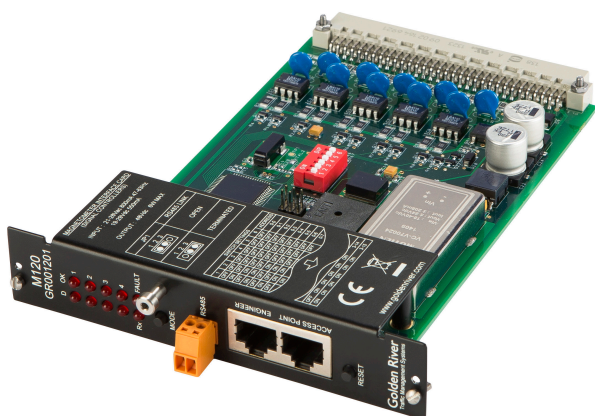


M120 Contact Closure Card



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.

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.

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)
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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 TrafficDot software via front panel RJ45 (ethernet port)
Access Point Connection	Via connection on front panel

Power

Input Voltage	Via traffic controller backplane DC - 19-29VDC 550mA or AC - 21-28 VAC 800mA 47-63Hz
Output Voltage	48VDC 6W max (Access Point power)

Environmental

Operating Temperature	-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

Backplane connector pinning and diagram

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

