

M160 Queue Detection Card



Clearview's M160 contact closure card is designed to interface the M100 system to controller cabinets using 8 + 1 opto coupled digital outputs.

The M160 can be user configured to create contact closure based on defined thresholds such as queuing traffic.

Specifications

Power Supply

The M160 must be powered with a DC source 9-30Vdc (1.2w). Voltage values greater than the maximum DC input may damage the device.

Connect card directly to ground using the terminal block on the power supply connector. Use a 2.5mmq wire to a copper equipotential bar of adequate section.

Digital outputs

The M160 provides 8+1 opto coupled digital outputs, whose status is displayed by LEDs on the front panel of the card. Outputs 1 to 8 are user configurable via TrafficDOT.

Output 9 is the M160/link status: an active LED means a link has been established.

Sensor/Output mapping

When using a custom application that directly controls the digital outputs (e.g. queue detection), sensor mapping must be done via web interface setup pages.

The M160 is configured by TrafficDOT as a virtual card (VC). The user created virtual cards on TrafficDOT must be configured to match the M160 slot numbers. The shelf field of the card address must always be set to 0.

Up to 4 cards per AP can be connected at the same time.

Web Interface

The factory IP address assigned to the M160 card is 192.168.2.123. The monitor page is arranged into four sections:

- Statistical section (per lane information)
- AP diagnostic section (where the AP link status and received packet counts are shown)
- M160 diagnostic section (where the restart count, date/time and running time are shown)
- Information (showing model info & firmware version)

Specifications

Interfaces	10/100Base-T Ethernet port, RJ45 connector RS-485 (optional, custom applications)
I/O	8 + 1 opto coupled digital outputs. Max positive voltage to be applied to common terminal: +48Vdc Max current/channel: 40mA <i>5 digital inputs (optional, custom applications)</i>
Input Voltage	9+30 VDC
Power Consumption	1.2W
Weight	125g
Dimensions	100 mm x 120 mm x 25 mm
Operating Temperature	-20°C to +70°C
Mounting	DIN mount
Compliance	EN 50293:2012