

3M Loop Detector

Model A200/201

Specifications (US Model)

Description

Electronic unit designed to detect the presence of vehicles in proximity to a buried inductive loop of wire providing a contact closure for communicating signal to other devices. Available for mounting inside a 3M Wireless Intercom Base Station (A201) or in its own plastic case for other uses (A200).

Physical

Size A200 - 3.7 in. x 5.83 in. (9.4 cm x 14.8 cm)
Size A201 - 2.7 in. x 5.7 in. (6.9 cm x 14.5 cm)
Operating Temperature Range 0 to 50 degree Centigrade (32 to 122 degrees Fahrenheit)
Humidity 10 to 95 % relative (non-condensing)

Power Supply

Type Wall-mounted plug-in DC supply
Voltage 12 to 18 Volts DC unregulated
Current 150 mA maximum
Connector Ribbon Connector to C960 PC Board/DC connector to external supply

Loop

Connections 2 wires plus shield
Protection +/- 1000 VDC transient-proof suppressors
Size 18" x 54" (5 or 6 turns of 16 AWG stranded wire) typically
Depth 1 to 2.5 inches nominal
Inductance 100 microhenries nominal
Frequency 25 to 60 kilohertz

Inputs/Outputs/Indicators

Terminals 9-position, quick disconnect
Relay DPDT (2ea common, NO, NC)
Power LED Green
Detect LED Yellow
Loop Fault LED Red
Shorted Loop Indication Red LED flashes one long, two short
Open Loop Indication Red LED flashes one long, three short

Adjustments (DIP Switch)

Detection Delay 0 or 2 seconds
Detection Sensitivity 4 levels
Relay Output Presence or Pulse mode