



Loop Dedector



General Description

Loop detectors are used wherever vehicles have to be detected, for example: monitoring and safe guarding access ways or counting vehicles. The output signal can be used for controlling door and gate drive mechanisms, operating barriers, controlling traffic light systems in car parks or activating card dispensers in car parks.

TECHNICAL SPECS

Self-tuning range	: 80-500 μ H
Sensitivity	: 4-step selectable per channel:
High	: 0.02% Δ L/L
Medium High	: 0.05% Δ L/L
Medium Low	: 0.1% Δ L/L
Low	: 0.5% Δ L/L
Frequency	: 4-step adjustable, 20-70kHz (frequency determined by loop geometry)
Output configuration	: 1 output relays per channel (fail-safe) Fail secure (factory option)
Automatic Sensitivity Boost:	Switch selectable
Pulse output duration	: Approx. 150ms (factory option 250ms)
Presence time	: Selectable, limited or permanent
Limited	: Presence 1 hour for 3% Δ L/L
Protection	: Loop isolation transformer, zener diode clamping on loop inputs and gas discharge tube protection
Power requirements	: 230V AC +/- 15% 48-60Hz (PD232)
Requirement	: 1.5VA max @ 230V
Output relays	: 6A 230V AC; N/O contact per channel (fail-safe)
Operating temp range	: -40°C to +80°C (circuit sealed against condensation)
Material	: High heat ABS blend
Dimensions (mm)	: 76 x 40 x 78
Mounting	: Shelf or DIN rail socket
Connector	: Single rear-mount 11-pin submagnal (86CP11)
Option	: 1 meter flying lead