

VEK M4D-A

4-CHANNEL LOOP DETECTOR FOR VEHICLE DETECTION

The VEK M4D-A is a 4-channel induction loop detector designed for reliable vehicle detection in barriers, gates, bollards and access-control systems. Combining advanced loop technology with simple commissioning, it delivers stable detection and dependable performance for demanding traffic-control applications.

- ✓ 4-channel induction loop detection
- ✓ Reliable vehicle presence detection
- ✓ Fast setup and calibration
- ✓ DIN-rail mounted compact housing
- ✓ Wide supply voltage range
- ✓ Diagnostic status LEDs
- ✓ Suitable for barrier, gate and bollard systems



MULTI-CHANNEL DETECTION

Four independent loop channels for flexible traffic detection.



FAST COMMISSIONING

Automatic calibration and intuitive setup for quick installation.



RELIABLE VEHICLE DETECTION

Stable recognition in all conditions with advanced loop processing.



INDUSTRIAL INTEGRATION

Relay/transistor outputs and diagnostics for seamless system integration.

APPLICATIONS



Automatic barriers



Rising bollards



Parking systems



Access control lanes

IN USE



TECHNICAL SPECIFICATIONS

Housing	Polycarbonate
Mounting	DIN rail (35 mm)
Dimensions (W x H x D)	105 x 90 x 58 mm
Weight	Approx. 210 g
Connection type	Plug-in screw terminals
Protection class	IP20
Supply voltage	12 – 30 V DC / 12 – 24 V AC
Power consumption	< 3.5 W (24 V DC)
Temperature range	-20 °C to +65 °C

LOOP CHARACTERISTICS

Number of channels	4
Loop cable length	Up to 100 m per channel
Inductance range	20 – 1000 µH
Operating frequency	20 – 150 kHz
Sensitivity adjustment	4 levels per channel
Calibration	Automatic (auto-tune)

SIGNAL OUTPUTS

Output channels	4 (independent)
Relay or transistor outputs	Relay (changeover) or NPN transistor (configurable)
Switching voltage	Max. 250 V AC / 30 V DC
Switching current	Max. 2 A (AC) / 2 A (DC) per channel
Status indication	LED per channel (detect / fault), power LED

ADDITIONAL FEATURES

- ✓ Automatic calibration (auto-tune)
- ✓ Configurable sensitivity per channel
- ✓ Stable detection in harsh environments
- ✓ LED status and fault indication
- ✓ Frequency drift compensation
- ✓ Power-up diagnostics

ORDER INFORMATION

PART NUMBER	DESCRIPTION
VEK M4D-A	VEK M4D-A – 4-channel loop detector for vehicle detection

PRODUCT VIEW



Front view



Side view

