

VEK MNE1 / VEK MNE2

## INDUCTION LOOP DETECTOR FOR VEHICLE DETECTION

- FEIG design with proven connection technology – 11 pole connector
- Basic settings easily adjustable with DIP switches
- Advanced settings via software
- USB interface for using modern diagnostic and service software
- Wide AC / DC supply voltage range
- Wide temperature range



### FEIG Induction Loop Detectors for parking technologies

When it comes to barrier systems, gates and bollards for access control purpose, the user's focus is on safety, reliability and speed.

Besides a powerful control unit induction loop detectors for vehicle identification play a crucial role, as several induction loops are usually installed for safety purposes and for generating commands when driving in or out.

The induction loop detectors of the MNE series guarantee extremely reliable detection of the vehicles. The settings via the DIP switches enable a simple and rapid start up. The diagnostic and service software offers a powerful tool in case trouble shooting and for advance settings of functions as the sensitivity or switching hysteresis.

### Additional features:

- > Automatic system adjustment directly after power on
- > Galvanic isolation between loop and detector electronics
- > Sensitivity adjustment independent of loop inductivity
- > Continuous readjustment of frequency drifts in order to avoid environmental influences
- > Quick response time
- > Mode 'direction indication' for VEK MNE2
- > Adjustments for relay operation – pulse & presence
- > LEDs for indication and fault detection



## Technical Data

Housing	for 11 pole socket
Material	ABS Plastic, color RAL 5001 / blue (special colors on request)
Dimensions (w x h x d)	38 mm x 76 mm x 71 mm (without socket)
Weight	165 g
Type of connection	11 pole socket
Type of protection	IP 20
Supply voltage	R24: 10 – 30 V DC or 10 – 26 V AC max. 1 W (SELV), R230: 100 – 240 V AC (50 / 60 Hz), max. 2 W
Temperature range	-37°C – 70°C



VEK MNE2

## Loop Characteristics

Loop supply cable	up to 200 m
Inductance range	20 – 700 µH (recommended 100 – 300 µH)
Operating frequency	30 – 130 kHz (2 steps)
Sensitivity range	0.01 – 0.64 % $\Delta f/f$ (4 steps with DIP switches) 0.01 – 2.55 % $\Delta f/f$ (255 with service software)

## Signal Outputs

VEK MNE1-A	1 presence relay with changeover contact (signal output invertible), 1 pulse output with NO contact (signal output invertible)
VEK MNE2-C	1 relay per channel with NC contact (signal output invertible)
Switching power	max. 60 W / 125 VA
Switching voltage	R24: max. 48 V (AC/DC), R230: max. 230 V AC
Switching current	max. 2 A
11 pole connector	(Special assignment of the 11 pole connector on request)

## Order Descriptions

4692	VEK MNE1-R24-A	1-channel, 11 pole connector, relay outputs, 24 V
4693	VEK MNE1-R24-A-LL10	1-channel, 11 pole connector, relay outputs, 24 V, delivery lot size: 10
4696	VEK MNE2-R24-C	2-channel, 11 pole connector, relay outputs, 24 V
4697	VEK MNE2-R24-C-LL10	2-channel, 11 pole connector, relay outputs, 24 V, delivery lot size: 10
4646	VEK MNE1-R230-A	1-channel, 11 pole connector, relay outputs, 230 V
4648	VEK MNE1-R230-A-LL10	1-channel, 11 pole connector, relay outputs, 230 V, delivery lot size: 10
4641	VEK MNE2-R230-C	2-channel, 11 pole connector, relay outputs, 230 V
4640	VEK MNE2-R230-C-LL10	2-channel, 11 pole connector, relay outputs, 230 V, delivery lot size: 10
4405	VEK MNE USB-cable	USB-cable for connection detector to computer
0185	VEK E plug socket	plug socket for installation of detectors with 11 pin-plug
<b>Diagnostic and Service Software (free of charge)</b>		

## MNE1-Rxx-A / MNE2-Rxx-C

Pin	Function	-R24	-R230
1	Power	+10 – 30 V DC	L 100 – 240 V AC
2	Power	GND	N

	MNE1-Rxx-A	MNE2-Rxx-C
3	Relay 2 Pulse NO	Relay 2 NC
4	Relay 2 Pulse COM	Relay 2 COM
5	Relay 1 Presence NC	Relay 1 NC
6	Relay 1 Presence COM	Relay 1 COM
7	Loop	Loop 1
8	Loop	Loop 1
9	-	-
10	Relay 1 Presence NO	Loop 2
11	Relay 2 Pulse NC	Loop 2