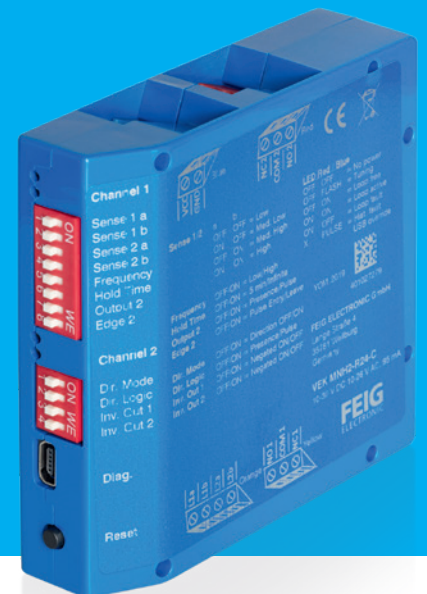**FEIG**

VEK MNH1 / VEK MNH2

INDUCTION LOOP DETECTOR FOR VEHICLE DETECTION

– New design with multi colored plug in terminals

– 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

– Transistor output version for applications with high operating cycles

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 MNH 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 MNH2

› Adjustments for relay operation – pulse & presence

› LEDs for indication and fault detection

Technical Data

Housing	for DIN rail mounting
Material	ABS Plastic, color RAL 5001 / blue (special colors on request)
Dimensions (w x h x d)	22.5 mm x 79 mm x 81 mm (without terminals)
Weight	160 g
Type of connection	Color coded plugin terminals
Type of protection	IP 20
Supply voltage	10 – 30 V DC or 10 – 26 V AC max. 2 W (SELV)
Temperature range	-37 °C – 70 °C

Loop Characteristics

Loop supply cable	up to 200 m
Inductance range	20 – 700 μH (recommended 100 – 300 μH)
Operating frequency	30 – 130 kHz
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 (Relay Version)

VEK MNH1-R24	1 presence relay with changeover contact (signal output invertible),
	1 pulse relay with changeover contact (signal output invertible)
VEK MNH2-R24	1 relay per channel with NO contact (signal output invertible)
Switching power	max. 60 W / 125 VA
Switching voltage	max. 48 V (AC/DC)
Switching current	max. 2 A

Signal Outputs (Transistor Version)

VEK MNH2-O24	1 NO-Collector presence output per channel (signal output invertible),
	1 NO-Collector loop fault per channel (signal output invertible)
Switching voltage	Vbb max. 27 V DC (SELV)
Switching current	max. 25 A

Order Descsrciptions

5013	VEK MNH1-R24-A	1-channel, DIN rail mounting, relay outputs
5014	VEK MNH1-R24-A LL10	1-channel, DIN rail mounting, relay outputs, delivery lot size: 10
5019	VEK MNH2-R24-C	2-channel, DIN rail mounting, relay outputs
5020	VEK MNH2-R24-C LL10	2-channel, DIN rail mounting, relay outputs, delivery lot size: 10
5159	VEK MNH2-O24-D	2-channel, DIN rail mounting, open collector outputs
5160	VEK MNH2-O24-D LL10	2-channel, DIN rail mounting, open collector outputs, delivery lot size: 10
4405	VEK MNE USB-cable	USB-cable for connection detector to computer
Diagnostic and Service Software (free of charge)		