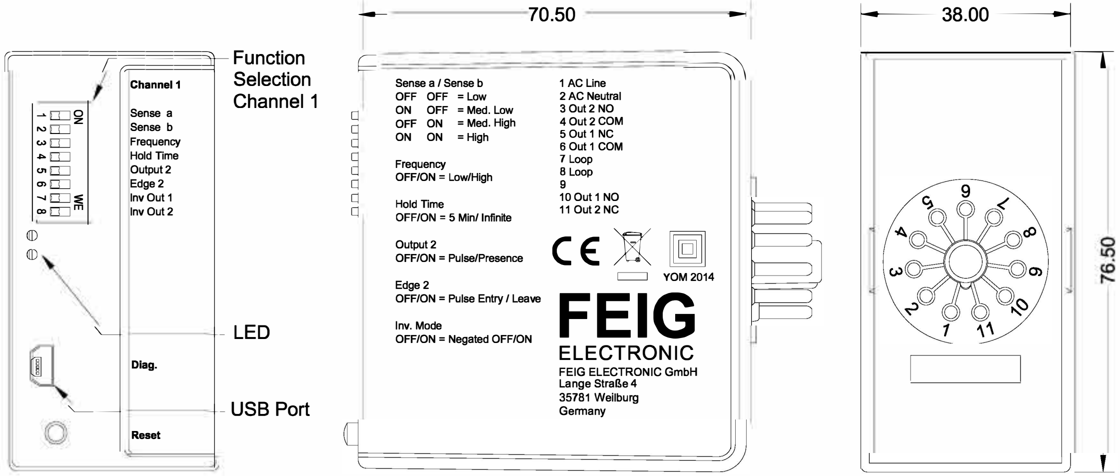
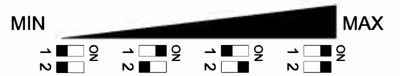
LOOP DETECTOR LAYOUT



FUNCTION SETTINGS

DIP Switches 1 & 2 :- Loop 1 sensitivity (4 steps)



DIP Switch 3:- Frequency (High / Low)

3 = LOW   3 = HIGH

DIP Switch 4:- Holding time (5 mins - Infinity)

4 = 5mins   4 = INFINITE

Note:- Loop will recalibrate after 5 minutes constant detection

DIP Switch 5:- Output 2

5 = IMPULSE OPERATION   5 = PRESENCE OPERATION

DIP Switch 6:- Edge 2

6 = PULSE ENTRY   6 = PULSE EXIT

DIP Switch 7:- Relay 1 Output Mode

7 = NORMAL   7 = INVERTED

DIP Switch 8:- Relay 2 Output Mode

8 = NORMAL   8 = INVERTED

OPERATING INSTRUCTIONS

1. Connect the power, ground, loop & output (See Pin Connections).
2. Sensitivity of Loop 1 is set by switches `1` & `2` (See Function Settings).
3. Sensitivity of Loop 2 is set by switches `3` & `4` (See Function Settings).
4. To reset the loop detector module, press the Reset button as shown in the above diagram.
5. Diagnostics: Additional software diagnostic is available, separately. Contact Link Controls Ltd. for details.

L.E.D. FUNCTIONS

Red	Blue	Function
OFF	OFF	No supply voltage
OFF	Fast Flashing	Calibration/Returning Loops
OFF	ON	Ready for operation, Loop free
ON	ON	Ready for operation, Loop active
ON	OFF	Loop Fault
X	Flashing	Historic Loop Fault or DIP Switch setting overwritten by USB
Blinking	Blinking	Output Loop Frequency in kHz

Fail Save / Fail Secure

More settings (Delay, Extension, Loop Fail Output, ..) or more detailed settings (Sensitivity, Hold Time, Output Modes, ..) can be done via USB interface with the service program

PIN CONNECTIONS

MNE1-R230-A (100-240 VAC)		MNE1-R24-A (10-30 AC/DC)	
Pin	**Function**	**Pin**	**Function**
1.	AC Line	1.	DC Positive
2.	AC Neutral	2.	DC Negative
3.	Relay 2 Output N.O.	3.	Relay 2 Output N.O.
4.	Relay 2 Output COM	4.	Relay 2 Output COM
5.	Relay 1 Output N.C.	5.	Relay 1 Output N.C.
6.	Relay 1 Output COM	6.	Relay 1 Output COM
7.	Loop	7.	Loop
8.	Loop	8.	Loop
9.	-	9.	-
10.	Relay 1 Output N.O.	10.	Relay 1 Output N.O.
11.	Relay 2 Output N.C.	11.	Relay 2 Output N.C.

Note:- For additional information see side of loop detector

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Title:-

VEK MNE1-R230-A 230VAC PLUG-IN LOOP DETECTOR MODULE (STOCK CODE: 37-4202)
&
VEK MNE1-R24-A 24 AC/DC PLUG-IN LOOP DETECTOR MODULE (STOCK CODE: 37-4197)

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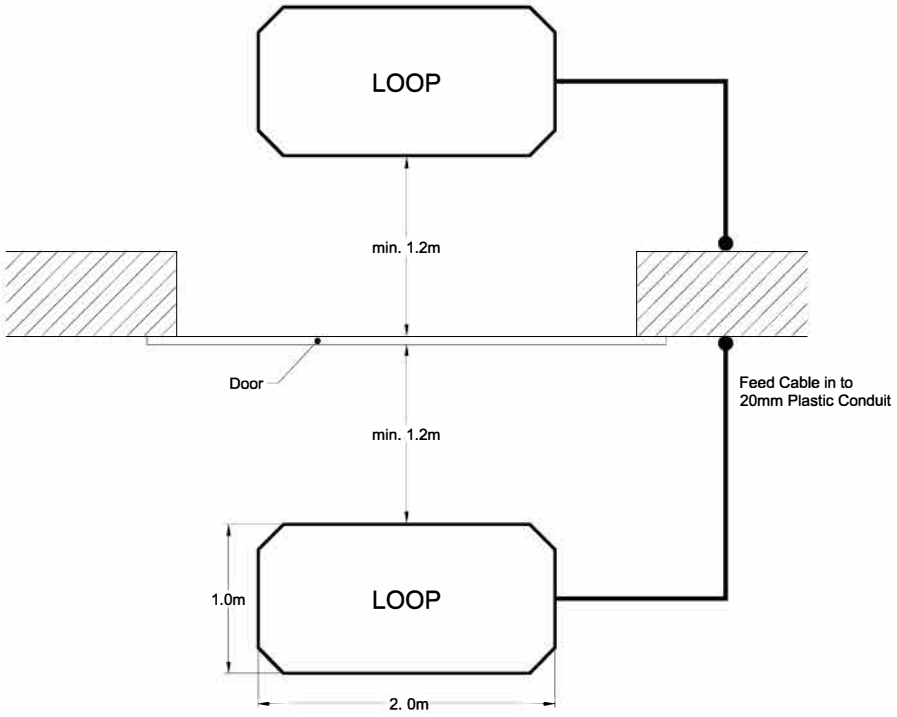
Drawn By:-	C.J.W.	Date:-	24/04/15
Checked By:-	D.R.	Appr' By:-	S.L.

TYPICAL EXAMPLE OF LOOP INSTALLATION



INSTALLING A LOOP

LOOP CABLE: Rubberised insulated wire of 0.75-1.50 sq.mm (awg 20 - awg 16), preferably multi-stranded.

LOOP SIZE: ***Note:-*** High bed vehicles require larger loops.

No. OF TURNS IN LOOP:

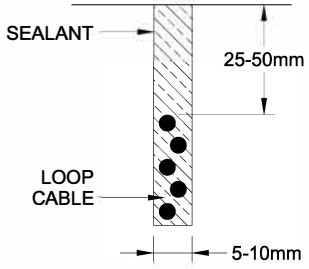
LOOP CIRCUMFERENCE	NUMBER OF TURNS
2 - 4m	6
4 - 7m	5
7 - 12m	4
12 - 25m	3

LOOP SLOT: Recommended depth to top of loop cable 25-50mm. (Maximum depth 65mm)
Loop slot **MUST** be sealed after cable has been installed and tested.
Use a flexible, weather proof sealant (i.e. Hot bitumen, Rubberised bitumen sealant).
CAUTION! Never use cement / concrete, etc...

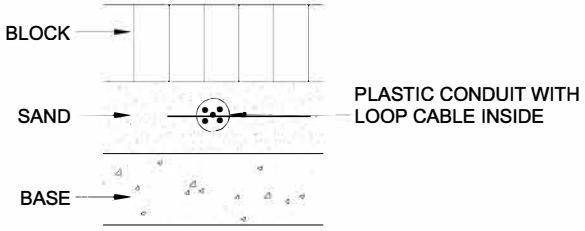
FEEDER CABLE: The feeder cable **MUST** be twisted a minimum 10 times per meter & can be up to 250m long.

LOOP PLACEMENT: The loop must be placed at least 5m away from high tension cables and at least 1m away from low tension cables. If the loop is placed in an area with reinforcing iron (typically a concrete floor), the loop must be placed at least 50mm above the reinforcement.

CONCRETE / TARMAC



BLOCK PAVING



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