



## MID 2E-800 Induction loop detector

double detector  
direction detection

### Technical Data

Power supply:	24 V AC/DC, +/- 10 %
Power consumption:	max. 1,5 W
Temperature range:	-20 C - +70 C
Max. humidity	max. 95%, not condensing
Loop inductance range:	25 - 800 H
Frequency range:	30 - 130 kHz
Sensitivity range (df / f):	,01% - 0,65% in 4 steps
Loop lead-in:	max. 250 m
Output relays:	1 relay with contact n.o. per channel pulse output at leaving of loop adjustable for channel 2. relay operation principle: rest operation/current operation - contact n.c./contact n.o. adjustable with jumper or solder strap on circuit board
Switch voltage:	24 V AC/DC
Housing	plastic-clamp enclosure for shelf or DIN-rail socket with 2x 3-pin. clamps
Dimensions:	79 x 22,5 x 90 mm (h x w x d)
Protection class:	IP 40 (waterproofed)

Presence vehicle detection for parking control and gate/barrier applications

\*Automatic Calibration when switching on or when changing the adjustment of holding time

\* Direction detection adjustable

\* Permanent or pulse output adjustable

### Special characteristics:

\* Plastic housing with compact size to be mounted directly on DIN- or C-rail

\*Adjustment of unlimited holding time possible

\* Indication with LED's

\* Direct cabling, no plug socket

\* All adjustments with DIP-switch on front panel

\* Microprocessor controlled

\* Adjustments of relay operation principle

\* Isolation transformer between loop and detector electronics

\* Low voltage supply, AC or DC supply possible

## Terminal connection

### Terminal screws on top

signature	function
0V	power supply (neutral)
24V	power supply (24V AC/DC)
2b	contact n.o - channel 2

### Terminal screws on bottom

signature	function
1a	common channel 1
1b	contact n.o - channel 1
2a	common channel 2

## DIP-switch modes

1	2	3	4	5	6	7	8	function
off	off	-	-	-	-	-	-	sensitivity channel 1 - step 1 (low)
on	off	-	-	-	-	-	-	sensitivity channel 1 - step 2 (med. low)
off	on	-	-	-	-	-	-	sensitivity channel 1 - step 3 (med. high)
on	on	-	-	-	-	-	-	sensitivity channel 1 - step 1 (high)
-	-	off	off	-	-	-	-	sensitivity channel 2 - step 1 (low)
-	-	on	off	-	-	-	-	sensitivity channel 2 - step 2 (med. low)
-	-	off	on	-	-	-	-	sensitivity channel 2 - step 3 (med. high)
-	-	on	on	-	-	-	-	sensitivity channel 2 - step 1 (high)
-	-	-	-	off	-	-	-	frequency low
-	-	-	-	on	-	-	-	frequency high
-	-	-	-	-	off	-	-	holding time 5 minutes
-	-	-	-	-	on	-	-	holding time unlimited
-	-	-	-	-	-	off	-	presence detection
-	-	-	-	-	-	on	-	direction detection
-	-	-	-	-	-	-	off	output permanent signal (both relays)
-	-	-	-	-	-	-	on	output pulse signal at leaving of loop or direction pulse output (if DIP7=on) only channel 2

(off = left switch position)  
(on = right switch position )

## Function of LED s

### LED green LED red function

off	off	power off
flash	off	detector calibrates
on	off	detector ready for operation, loop free
on	on	detector ready f. operation, loop occupied
off	on	loop failure
pulse	-	loop frequency by pulse signal