

Characteristic features

- 11-pole circular connector
- Galvanic separation of loop and detector electronics
- Automatic system adjustment directly after power-on Sensitivity adjustment independent of loop inductivity
- Loop busy signal emitted by LED-display
- Potential-free relay contacts at the outputs
- Loop fault message via LED-signal
- Indication of historical loop fault
- Continuous rebalancing of frequency drifts in order to avoid environmental
- Diagnostics by external Service Program via USB-Mini connector

Settings

Use the following DIP Switches for the standard settings.

2.1 Sensitivity

	DIP 1 DIP 3	DIP 2 DIP4	Function	
1	OFF OFF		Low	
1	ON	OFF	Medium Low	
1	OFF	ON	Medium High	
1	ON	ON	High	

DIP $1/2 \rightarrow \text{Loop } 1$ DIP $3/4 \rightarrow \text{Loop } 2$

More detailed Sensitivity settings via USB Interface!

2.2 Frequency

DIP 5	Function
OFF	Low
ON	High

2.3 Hold Time

Ì	DIP 6	Function	
Ì	OFF	5 Minutes	
	ON	Infinito	

More detailed Hold Time settings via USB Interface!

2.4 Output Mode Relay 2

DIP 7	Function	
OFF	Presence Output on Relay 2	
ON	Pulse Output on Relay 2	

Setting doesn't affect Relay 1!

2.5 Output Edge Relay 2

DIP 8	Function	
OFF	Pulse on Loop Entry	
ON	Pulse on Loop Exit	

Available only if Relay 2 is in Pulse Output Mode!

2.6 Direction Mode

DIP 9	Function
OFF	Presence Output
ON	Direction sensitive Output

2.7 Direction Logic

	2 2 co 20g.c			
Ì	DIP 10	Function		
OFF C		Dir. Logic Presence Output		
	ON	Dir. Logic Pulse Output		

Available only if Direction Sensitive Output is active!

2.8 Fail Save / Fail Secure

DIP 11 DIP 12	Function	DIP Switch 11 inverts output signal on
OFF	Non Inverted Output Signal	Relay 1 and DIP Switch 12
ON	Inverted Output Signal	on Relay 2.

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

3 Reset-Button

Press Reset Button 1 s until red LED is flashing to reset/retune detector and clear

LED

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

*) If one or more DIP Switch setting is overwritten by the service program via USB

Example for loop frequency 57 kHz:



Diagnostics

To display more details of the induction loop system, e.g. frequency, detuning, busy time, output signals, .. use the Service Program.

Pin Assignment

Pin	Function	-R24		-R230
1	Power	+10-30 VDC	10-30 VAC	L 100-240 VAC
2	Power	GND	10-30 VAC	N
3	Relay 2 N.C.			
4	Relay 2 COM			
5	Relay 1 N.C.			
6	Relay 1 COM			
7	Loop 1			
8	Loop 1			
9	-			
10	Loop 2			
11	Loop 2			

Technical Data

Dimensions (H x W x L) 76 x 38 x 71 mm

-R24: 10-30 V AC/DC, max.1 W Power Supply -R230:100-240 V AC, 50-60 Hz, max. 2 W

Operating Temp. -37 °C +70 °C

max. 2 A, 230 VAC, 60 W/125 VA Relays 20-700 μH , recommended 100-300 μH Inductivity Loop

> 30-130 kHz, 2 steps Frequency max. 200 m Supply Line

Resistance max. 20 Ohm, incl. Loop Supply Line

Connectors Power, Loop, 11-pole circular connector

Relay.

Diagnostic USB-Mini AB

