

CIRCUIT BOARD DETECTOR PLD32

FOR APPLICATIONS IN INTEGRATED ELECTRONIC CONTROL SYSTEMS

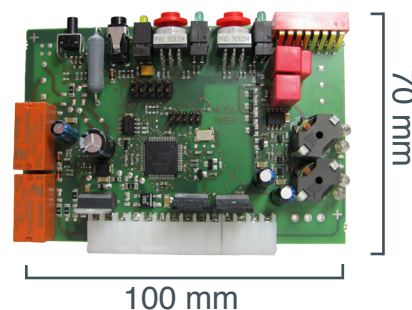


SWARCO TRAFFIC SYSTEMS GMBH is a member of the internationally active SWARCO group, the one-stop shop for road markings, signage, signalisation and traffic management your reliable partner for traffic solutions.

The 2-channel circuit board detector PLD32 was designed for vehicle access control for door, gate and barrier applications, for vehicle detection depending on traffic direction and for safeguarding and monitoring of conveyor systems and car-wash plants.

FEATURES:

- Compact design
- Molex-connector for easy installation and adaptation
- Reliable data acquisition independent of environmental influences
- Intuitive pre-configuration without supply voltage and easy initial operation
- Fast automatic tuning
- Wide adjustable range of response sensitivity
- Sensitivity boost
- Selectable relay functions: Permanent or pulse mode, pulse signal when leaving the loop, switchable turn-on / turn-off delay, closed or open circuit principle
- Continuous adjustment of frequency drifts because of e.g. changing temperature
- No interference of loop frequencies due to "multiplex mode"
- High noise immunity due to frequency adjustment and oversampling
- Permanent loop control and display via LED blink code for immediate detection of loop failures (loop short-circuits, loop disruptions, operational disturbances, alignment time)
- Directional signal
- Wide inductivity range: 20 μ H - 2000 μ H
- Simple simulation mode to test periphery
- Comfortable operation by means of "LoopMaster" program
- Customizing: Individual adjustment and configuration of switch functions



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FUNCTIONAL DESCRIPTION:

The 2-channel induction loop detector PLD32 analyzes the loops in the ground. These represent the inductivity of a high frequency oscillator circuit. The metal body of a vehicle passing the loop causes a change of the frequency of the oscillator circuit. The loop detector analyses this and sends a switching signal via a dry relay contact. This is also displayed on the front LEDs.

The loop signals are precisely analyzed by a microprocessor. When the detector is switched-on an automatic alignment with the connected inductive loop is executed. There is no interference of loop signals since the dual-channel version PLD32 analyzes the loops in a defined order (multiplex mode) so that only one loop is active at one time.

The detector can be comfortably set via rotary and DIP switches on the front or via serial interface at the front of the device. Additionally, all current parameter and diagnosis values can be set and readout. This is done by means of the "LoopMaster" PC operating program (service cable optionally available). "LoopMaster" is available free of charge and additionally offers extensive loop and detector analysis functions. The trend-setting customizing allows an individual configuration and setting of operating elements and functions.

TECHNICAL FEATURES:

Supply voltage	24 V AC/DC
Power consumption	24 VAC/DC: < 3,0 VA
Dimensions	Height: 70 mm, Width: 100 mm, Depth: 22 mm
Operating / storage temperature	-25°C to +70°C / -40°C to +80°C
Connection	via 14-pole Molex strip (type 2145/3215 KK 3.96 mm)
Weight	70 g
Inductivity range	Permissible range: 20 µH to 2000 µH, recommended range: 100 µH to 300 µH
Sensitivity (adjustable per channel)	adjustable in 7 steps, from 0.3 % - 0.007 % (frequency change f/f0 in %)
Interfaces	Service interface RS232 via optional service cable
Adjustment	automatically after switching on the supply voltage, after pressing the reset button
Output	potential-free relay contacts per channel, optional: Open Collector
Display elements	LED red = Loop error LED yellow = Blinking when alignment / Power - Display LED green = Detection

For detailed information about the function, operation and pin assignment as well as further technical data check the user manual.



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