



LOOP DETECTOR

Product Introduction

The Technospacio Loop Detector is a reliable inductive vehicle detection device designed for automatic boom barriers, gate automation, parking management, and access control systems. It accurately detects the presence of vehicles using an inductive loop, ensuring safe, efficient, and uninterrupted operation. Featuring adjustable sensitivity, fast response time, multiple operating modes, and robust electrical protection, it provides dependable performance in commercial, industrial, and residential applications.

Key Features

- High-accuracy inductive vehicle detection
- Adjustable sensitivity with multiple selectable levels
- Fast response time for real-time vehicle detection
- Dual relay outputs for Presence and Pulse/Fault functions
- Multiple operating modes for flexible applications
- Built-in surge and voltage protection
- Wide operating temperature range (-40°C to +80°C)
- Easy DIN rail or panel installation

Specification

Brand Name	TECHNOSPACIO
Power Supply	220 VAC $\pm 10\%$, 50/60 Hz or 24 VAC/DC $\pm 10\%$
Sensing Range	20–1500 μH
Sensitivity	0.02%–0.2% (7 selectable levels)
Response Time	50 ms
Operating Frequency	15–120 kHz (2 selectable frequencies)
Relay Output	2 Relay Outputs (5 A @ 230 VAC)
Relay 1	Presence Relay
Relay 2	Pulse / Fault Relay
Operating Modes	Mode 1: Presence & Pulse Relay Output Mode 2: Pulse / Fault Relay Output
Presence Mode	Limited Presence / Permanent Presence
Pulse Mode	Pulse on Entry / Pulse on Exit
Pulse Duration	200 ms (Entry & Exit)
Presence Duration	30 Minutes (Limited) / Permanent
Power Indicator	Red LED
Status Indicator	Green LED
Internal Protection	Isolation Transformer, Voltage Regulator Tube, Voltage-Dependent Resistor
Operating Temperature	-40°C to +80°C