CARLO GAVAZZI
Automation Components

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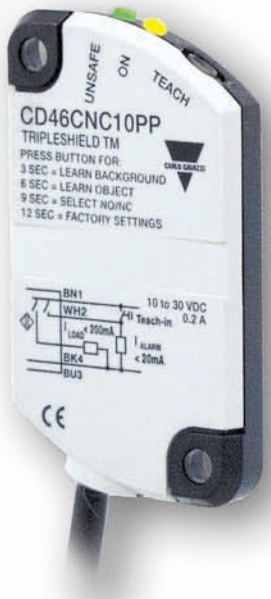
Thin Profile Capacitive Proximity Level Sensor

Tripleshield™ protection
Application-optimized design
Easy setup and adjustment
Easy Mounting
IP68
Remote setup and adjustment



This thin profile capacitive sensor from Carlo Gavazzi has been designed on the basis of customer demands and our own 20 years of experience. The goal was to develop the smallest and most widely applicable rectangular capacitive sensor in the market.

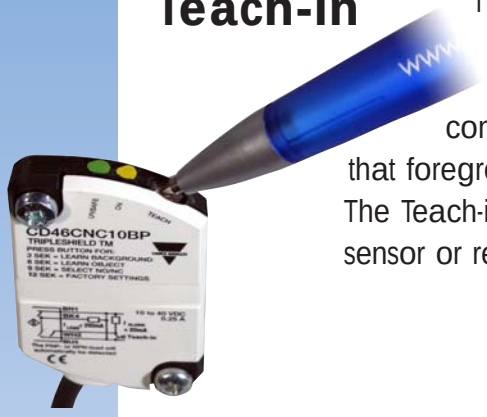
The very small-size housing has been carefully prepared in all aspects, to enable it to fit into as many applications as possible - without compromising any of the high demands.

The sensor is based on the latest microprocessor technology, which has made it possible to implement features which enhance the user-friendliness and reliability of the application. In addition, it gives us the flexibility to implement exactly the functionality you need, for example timer functions, filters, pulsed output or even logical expressions.

Breaking Standards Within:

Technology - Design - Price

Teach-in



The most interesting feature is the Teach-in function, with which the sensor is adjusted to detect or not to detect a certain medium. The sensor can be taught to suppress a non-conductive foreground medium and to detect an item behind that foreground.
The Teach-in function can be activated by a pushbutton on the top of the sensor or remotely by a fourth wire connection.

Sensing distance

The sensors are designed with an extremely wide sensing distance interval with a nominal sensing range of 1,0 mm to 10 mm. You will always gain full advantage of the total performance - no matter whether the sensor is set to minimum or maximum distance.
The wide sensing distance also protects the sensor against mechanical damage and ensures reliable detection and production flow.

Tripleshield ™

Best Performance against:

- Electrostatic discharge
- Burst
- Airborne HF
- Wire-conducted noise
- High energy transients
- Short circuit
- Reverse polarity

Front mounting

- Direct mounting on non-metallic surfaces
- Stable mounting with screws in diagon mounting holes
- Close-fitting of the sensor against the surface reduces dirt accumulation
- Mounting by use of hot-melt adhesive further eliminates dirt accumulation and error detection
- Detects most solid and fluid materials
- IP68-prepared for harsh and wet environments
- Sunk pushbutton prevents unintended activation

Pipe mounting

- Stable mounting via retaining strap in guide rail
- The thin profile
  - enables installation on pipes with even small diameters
  - stabilizes the mounting
- Horizontal or vertical cabling
- Easily accessible Teach-in function
- LEDs visible from several sides

Plane mounting

- Sensor recessed in wall
- Fastened with countersunk screws
- Easily accessible remote Teach-in function
- Provides the highest protection against dirt accumulation and accidental touchby moving target

Type number	Type	Output	Supply voltage	Connection	Sensing Distance
CD46CNC10NP	3-wire DC	NPN NO/NC	10-30 VDC	Cable	0.5 to 10 mm
CD46CNC10PP	3-wire DC	PNP NO/NC	10-30 VDC	Cable	0.5 to 10 mm