

Sense

ICB 12 Series - The Next Generation

The **ICB12 Series** is the result of Carlo Gavazzi's half century of experience in designing and producing proximity sensors.

The sensors feature two amber LEDs 180° apart, so they're easily viewable from most angles. The 3 wire sensors are constructed in a rugged nickel plated brass housing, feature a 10-36VDC supply voltage and a 200mA transistor output.

What sets these new sensors apart is their onboard microprocessor that takes them into the world of digital technology, merging the benefits of sensing and data transmission. Furthermore, compared to today's sensor technology, the air core printed sensing coil and our innovative hot melt potting make these sensors the state-of-the-art sensor of choice.



Application Durability



Long Term Reliability



Cost Saving



Your Sensor - Your Way

Carlo Gavazzi is committed to providing the right solution to our OEM customers and their demanding application requirements. Sometimes this means that an off-the-shelf sensor is not quite the perfect fit. We will customize proximity sensors to meet these specific demands for almost any application.

Approvals

The ICB Series is UL/CSA recognized and is CE marked.





ICB Series - The Game Changer



Into the Digital World

The ICB Series sensors feature a new generation of microprocessor, that digitally analyzes the sensing signal, allowing many types of customizations:

Programmable outputs

High Performance

The key sensing component for the ICB Series is the air-core printed sensing coil, which replaces traditional ferrites and coils. The advantages of this innovative sensing coil include:

- Higher mechanical stability
- Higher immunity to magnetic fields
- Higher manufacturing efficiency and repeatability
- Higher resistance to vibration and impact



The ICB Series features a new potting material, which provides an eco-friendly design and high performance. The new potting material is made from recycled corn therefore by-product, reducing impact environment. At the same time, it also contributes to an improved production process for the sensors, resulting in:

- Higher manufacturing efficiency and repeatability
- Increased product reliability, stability, and lifetime
- Higher resistance to mechanical stress



ICB Series - The Game Changer

How to Choose Your Sensor ...







The ICB12 Family

Flush Mountable - 2 m Cable

2mm Sensing Distance	4mm Extended Sensing Distance	Body Style / Dimensions (mm)	Output Type	Output Configuration
ICB12SF02NO	ICB12SF04NO	Short: M12 x 50	NPN	Normally Open
ICB12SF02PO	ICB12SF04PO	Short: M12 x 50	PNP	Normally Open
ICB12SF02NC	ICB12SF04NC	Short: M12 x 50	NPN	Normally Closed
ICB12SF02PC	ICB12SF04PC	Short: M12 x 50	PNP	Normally Closed
ICB12LF02NO	ICB12LF04NO	Long: M12 x 65	NPN	Normally Open
ICB12LF02PO	ICB12LF04PO	Long: M12 x 65	PNP	Normally Open
ICB12LF02NC	ICB12LF04NC	Long: M12 x 65	NPN	Normally Closed
ICB12LF02PC	ICB12LF04PC	Long: M12 x 65	PNP	Normally Closed



Flush Mountable - M12 Connector

2mm Sensing Distance	4mm Extended Sensing Distance	Body Style / Dimensions (mm)	Output Type	Output Configuration
ICB12SF02NOM1	ICB12SF04NOM1	Short: M12 x 51	NPN	Normally Open
ICB12SF02POM1	ICB12SF04POM1	Short: M12 x 51	PNP	Normally Open
ICB12SF02NCM1	ICB12SF04NCM1	Short: M12 x 51	NPN	Normally Closed
ICB12SF02PCM1	ICB12SF04PCM1	Short: M12 x 51	PNP	Normally Closed
ICB12LF02NOM1	ICB12LF04NOM1	Long: M12 x 66	NPN	Normally Open
ICB12LF02POM1	ICB12LF04POM1	Long: M12 x 66	PNP	Normally Open
ICB12LF02NCM1	ICB12LF04NCM1	Long: M12 x 66	NPN	Normally Closed
ICB12LF02PCM1	ICB12LF04PCM1	Long: M12 x 66	PNP	Normally Closed



Non-Flush Mountable - 2 m Cable

4mm Sensing Distance	8mm Extended Sensing Range	Body Style / Dimensions (mm)	Output Type	Output Configuration
ICB12SN04NO	ICB12SN08NO	Short: M12 x 50	NPN	Normally Open
ICB12SN04PO	ICB12SN08PO	Short: M12 x 50	PNP	Normally Open
ICB12SN04NC	ICB12SN08NC	Short: M12 x 50	NPN	Normally Closed
ICB12SN04PC	ICB12SN08PC	Short: M12 x 50	PNP	Normally Closed
ICB12LN04NO	ICB12LN08NO	Long: M12 x 65	NPN	Normally Open
ICB12LN04PO	ICB12LN08PO	Long: M12 x 65	PNP	Normally Open
ICB12LN04NC	ICB12LN08NC	Long: M12 x 65	NPN	Normally Closed
ICB12LN04PC	ICB12LN08PC	Long: M12 x 65	PNP	Normally Closed



Non-Flush Mountable - M12 Connector

4mm Sensing Distance	8mm Extended Sensing Range	Body Style / Dimensions (mm)	Output Type	Output Configuration
ICB12SN04NOM1	ICB12SN08NOM1	Short: M12 x 51	NPN	Normally Open
ICB12SN04POM1	ICB12SN08POM1	Short: M12 x 51	PNP	Normally Open
ICB12SN04NCM1	ICB12SN08NCM1	Short: M12 x 51	NPN	Normally Closed
ICB12SN04PCM1	ICB12SN08PCM1	Short: M12 x 51	PNP	Normally Closed
ICB12LN04NOM1	ICB12LN08NOM1	Long: M12 x 66	NPN	Normally Open
ICB12LN04POM1	ICB12LN08POM1	Long: M12 x 66	PNP	Normally Open
ICB12LN04NCM1	ICB12LN08NCM1	Long: M12 x 66	NPN	Normally Closed
ICB12LN04PCM1	ICB12LN08PCM1	Long: M12 x 66	PNP	Normally Closed





The Complete Product Package

Sense

Inductive and Capacitive Sensors Photoelectric Sensors Ultrasonic Sensors Wind Sensors Radar Sensors Motion/Presence Vision Sensors Conductive Level Sensors Limit Switches Magnetic Switches Safety Interlocks and Light Curtains

Switch

Solid State Relays Contactors and Overloads Manual Motor Starters/Protectors Soft Starters Variable Frequency Drives Hybrid Relays Electromechanical Relays Push Buttons and Pilot Lights

Control

Energy Management Switching Power Supplies Digital Panel Meters Timers and Counters Monitoring Controls Current Transformers/Shunts PID Controllers Surge Arresters Safety Control Modules

Fieldbus

Dupline® Field and Installation Bus Building Automation Systems Parking Guidance Systems Elevator Systems DuplineSafe Mining Systems Irrigation Systems

EcoEnergy

Eos-Array Solar Monitoring System Photovoltaic and Wind Inverters Wind Generators Solar Control and DC Meters Solar Battery Chargers Digital Energy Production Display

A Global Force in Automation and Energy Solutions

CARLO GAVAZZI has a multitude of sales offices spanning North America (not to mention our hundreds of distributors). Therefore, we can be viewed as "your local automation resource" - assisting you every step of the way in finding the proper solution for your various application requirements. Naturally, our job is greatly simplified as we have such a vast range of solutions to offer you via our comprehensive product package.

Our worldwide sales offices make us an ideal business partner, especially for manufacturers of exported machinery, as our products are available locally and they are RoHS and CE marked.

USA CARLO GAVAZZI INC. 750 Hastings Lane

Buffalo Grove, IL 60089 Tel: 847.465.6100 Fax: 800.222.2659

Fax: 800.222.2659 Sales@CarloGavazzi.com CARLO GAVAZZI (CANADA) INC. 2660 Meadowvale Boulevard

CANADA

2660 Meadowvale Boulevard Mississauga, ON L5N 6M6 Tel: 888.575.2275

Fax: 905.542.2248

Gavazzi@CarloGavazzi.com

MEXICO

CARLO GAVAZZI MEXICO S.A. de C.V.
Calle La Montaña no. 18, Fracc. Los Pastores

Naucalpan de Juárez, EDOMEX CP 53340

Tel & Fax: 52.55.5373.7042

MexicoSales@CarloGavazzi.com

Regional / Area Sales Office
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CARLO GAVAZZI

USA Tel: 847.465.6100 Fax: 800.222.2659

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Mexico Tel and Fax: 52.55.5373.7042

Website www.GavazziOnline.com

Email Info@CarloGavazzi.com



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