

ICB Series Inductive Proximity Sensors

- *M12 long or short barreled housings*
- *Rugged nickel plated brass construction*
- *Up to 8 mm sensing range*
- *Environmentally friendly potting material*
- *Microprocessor based design*
- *Innovative air-core sensing coil*



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.



Into the Digital World

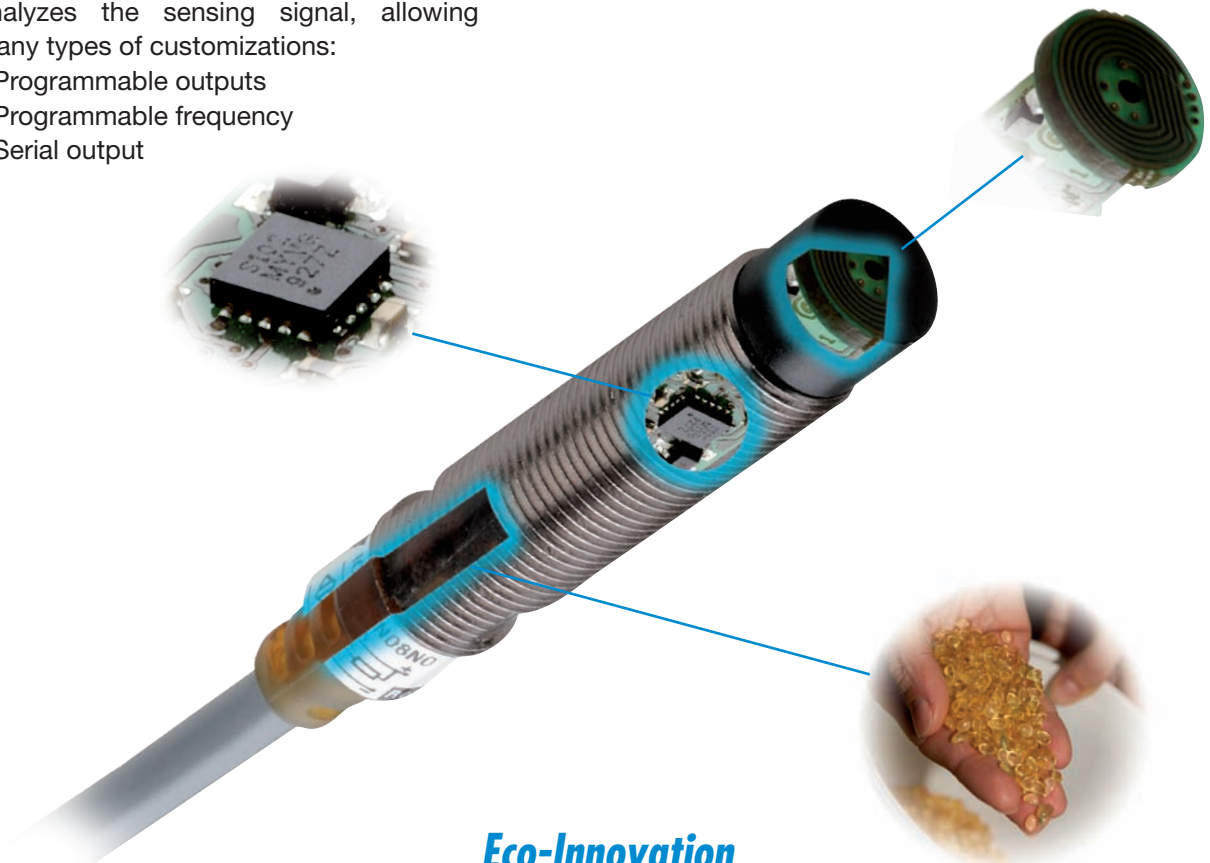
The **ICB Series** sensors feature a new generation of microprocessor, that digitally analyzes the sensing signal, allowing many types of customizations:

- Programmable outputs
- Programmable frequency
- Serial output

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



Eco-Innovation

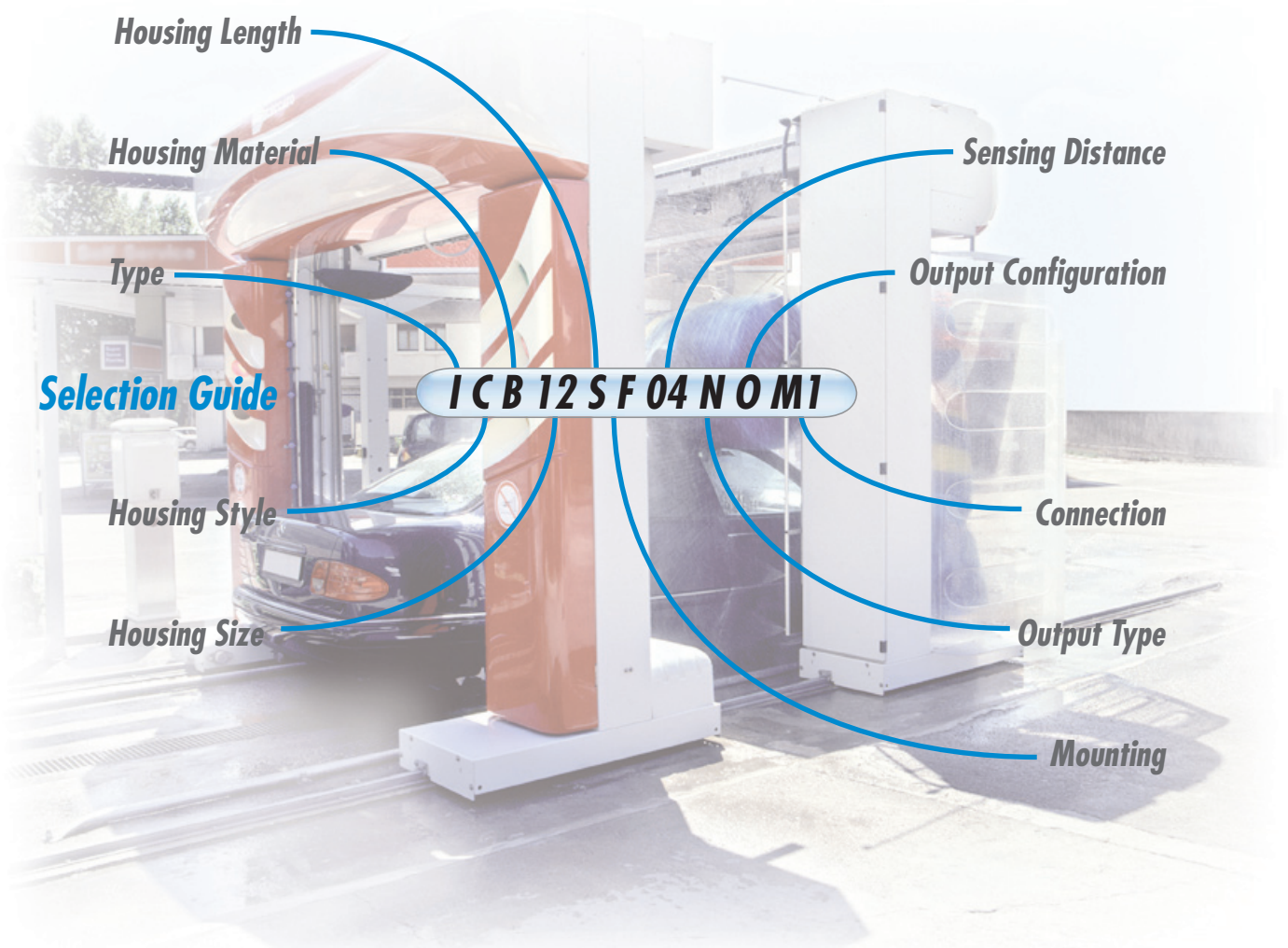
The **ICB Series** features a new potting material, which provides an eco-friendly design and high performance. The new potting material is made from recycled corn by-product, therefore reducing impact on the environment. At the same time, it also contributes to an improved production process for the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



Housing Length

S = Short body
L = Long body

Mounting

F = Flush mountable
N = Non-flush mountable

Sensing Distance

02 = 2 mm 04 = 4 mm
08 = 8 mm

Output Type

N = NPN
P = PNP

Output Configuration

O = Normally open
C = Normally closed

Connection

M1 = Plug
= Cable



The ICB12 Family

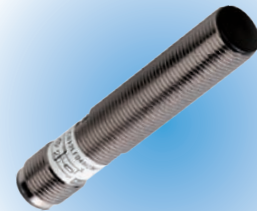
Flush Mountable - 2 m Cable

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



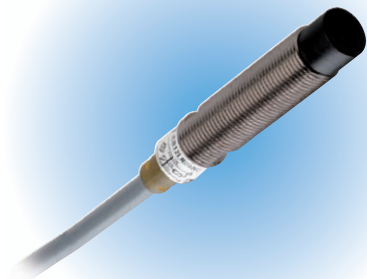
Flush Mountable - M12 Connector

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

