



ICB series - Inductive proximity sensors

Sensors

ICB series

ICB series - 3 and 4-wire DC

Inductive proximity sensors provide a reliable and cost effective solution for many applications in machinery and automation equipment. These robust sensors detect metal objects without physical contact, giving a wear-free solution in harsh environments.

Inductive sensors are not influenced by dust, oil, water, or vibrations. Operating at high switching frequencies, they feature high resolution, excellent repeatability and precision, and exceptional resistance to shocks.

What sets the ICB series 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, our innovative hot melt potting make these sensors the state-of-the-art sensor of choice.



Eco-friendly sensing

ICB series represents a complete family of high performance inductive sensors, built to the highest-quality standards and resulting from over 50 years' experience at Carlo Gavazzi in designing and producing proximity sensors.

The new range includes:

- M12, M18 and M30 long or short barrel housings
- Sensing range from 2 mm up to 40 mm
- 3-wire and 4-wire DC

All sensors come with:

- Rugged nickel plated brass construction
- Excellent LED output state visibility
- Short circuit, reverse polarity and transients protection

Several installation possibilities:

- Flush and non-flush versions
- NPN or PNP, NO or NC output
- 2-meter oil resistant PVC cable or M12 disconnect plug

Approvals:

- All ICB sensors bear the cULus certification and CE mark
- The ICB 3-wire DC serie are cCSAus certified for Hazardous Location

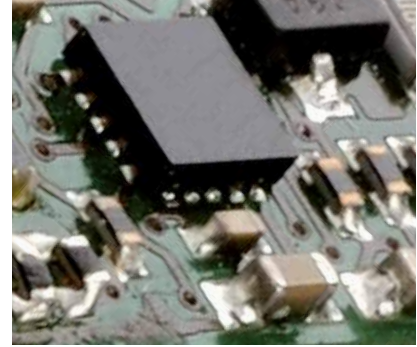
Main features

A new generation of microprocessor

All the ICB series sensors feature a new generation of microprocessor, that allows final calibration of the sensor at the end of the assembly process and provides:

- Temperature stability over the whole temperature range
- Increased EMC robustness
- Greater reliability and repeatability
- High precision and minimum deviation

- Possibility of customization such as programmable outputs and switching frequencies



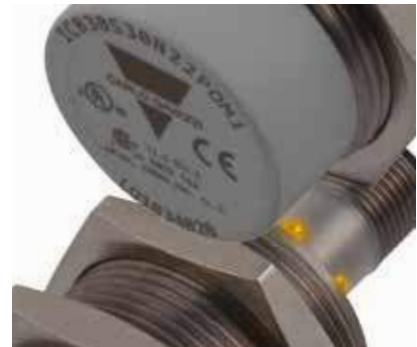
Assured traceability and best application control

The traceability is guaranteed by the permanently legible laser engraved part number and serial number on the plastic cap of the sensor.

The LED in the new ICB series sensors is clearly visible from any direction both in the cable and in the plug-disconnect versions.

In addition to the indication of the switching state, with the ICB sensors we have introduced a new function for the

LED. When it blinks with a frequency of 2Hz the LED indicates a short-circuit or overload condition, thus simplifying troubleshooting.



Environmentally friendly potting material

In ICB12 and ICB18 families the potting material provides an ecofriendly design and high performance.

This thermoplastic hotmelt filling is made from recycled corn by-product and allows:

- Reduced impact on the environment
- Higher resistance to mechanical stress and vibrations
- No risk of breaking electronic components

- Increased reliability and improved stability
- Longer sensor lifetime



ICB series

Inductive proximity sensors

Market applications

Machine tool

CNC machines repeat precise sequences and are able to produce the most complex pieces.

Tool changing machines for example automatically change the specific tool. A drill machine has a variety of drill bits to make holes of several sizes.

Inductive sensors are used to check the tool position when changing the tool or to verify the component moved to the correct location.

ICB series represents a **suitable solution** thanks to:

- The improved performance with vibrations and shocks
- Reliable connection system between the cable and the barrel
- Very high resolution and quick response time

Achieved benefits:

- Optimized and fast setup
- Reliable and cost effective solution



Agriculture

Inductive sensors are mainly used for non contact detection of the position of a part on the machine or equipment itself.

Thanks to its excellent quality and to the complete product range, ICB series is particularly suitable for the agricultural and earth-moving sectors.

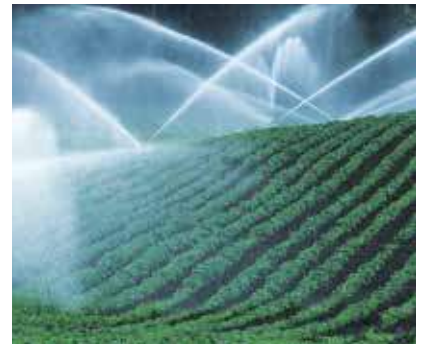
ICB series allows:

- Personalized solution with customizable termination options

- High durability and quality
- Resistance to extreme conditions, such as oily and dusty environment

Achieved benefits:

- Reduced installation costs
- Product reliability and durability
- Complete range to satisfy all application needs



Material handling systems

Material handling systems interconnect the different processes of production, from the raw material to the final product. In these systems it is mandatory to ensure the automatic and reliable flow of goods. Inductive sensors are critical to obtaining the higher productivity and quality from the automated process.

ICB series **is an ideal choice** very well thanks to:

- Microprocessor technology

- High precision and temperature stability

Achieved benefits:

- Precise fit with customized solutions
- Programmable sensing distance and frequency



ICB series - Triple sensing distance



The robust and highly reliable ICB series is now available in increased operating distance. In M12, M18 and M30 industrial standard nickel plated brass housings. The new sensors are extremely accurate and represent the best choice for non-contact detection of metallic targets at a distance **up to 40 mm**, the largest sensing distance available on the market for an inductive sensor.

The powerful design of ICB offers the ideal solution in demanding installation conditions typical of industrial environments. The eco-friendly high performance potting material protects the electronic components and provides increased reliability with higher resistance to mechanical stress and vibrations than the traditional proximity sensors.

ICB inductive proximity sensors thanks to an operating distance up to 3 times the standard, allows to position the sensor at an higher distance from a metal target. The result is an **increased sensor's lifetime** especially when the metal target has greater tolerances, being the sensor well protected.

All options already available in ICB standard and extended series are now also available in increased operating distance:

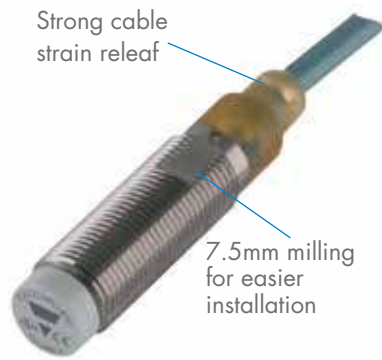
- Long and short barrel housings
- Quasi-flush or non-flush mounting in metal
- NO or NC
- M12-plug or 2 m PVC cable versions
- NPN or PNP switching outputs.

The sensors are rated to IP67 and the mechanical design of the back part ensures an excellent sealing against water and humidity penetration. Thanks to the **built in microcontroller**, all sensors are individually compensated to ensure repeatable and highly accurate operation over the whole temperature range, granting the sensing distance between -25 and +70°C (-13° to +158°F).

ICB series

Inductive proximity sensors

Your benefits



ICB12
 Quasi-flush: S_n 6 mm
 Non-flush: S_n 10 mm

ICB18
 Quasi-flush: S_n 12 mm
 Non-flush: S_n 20 mm

ICB30
 Quasi-flush: S_n 22 mm
 Non-flush: S_n 40 mm

Longer sensing distance
 Installing the sensor at a longer distance from the moving metal objects reduces the risk of breakdowns granting much lower failure rate.

Laser printing
 The most important information are permanently laser engraved on the front cap granting the best traceability.

High operating frequency
 The high operating frequency allows high speed measurements in counting tasks or for monitoring rotational speed.

Easy mounting

The installation of the sensor is much easier thanks to the built-in setup function.
 By approaching the target to the sensor's face the LED starts blinking when the effective operating distance (S_r) is between 80% and 100% of the rated operating distance and lights continuously when it is below 80%.
 Thus allowing the installer to position the proximity sensor at the correct distance from the target.



Diagnostics

LED is clearly visible from any direction in both cable and plug disconnect version.
 Further to the indication for output ON the LED also has an additional diagnostic function. It flashes with a frequency of 3 Hz in case of shorts circuit or overload.



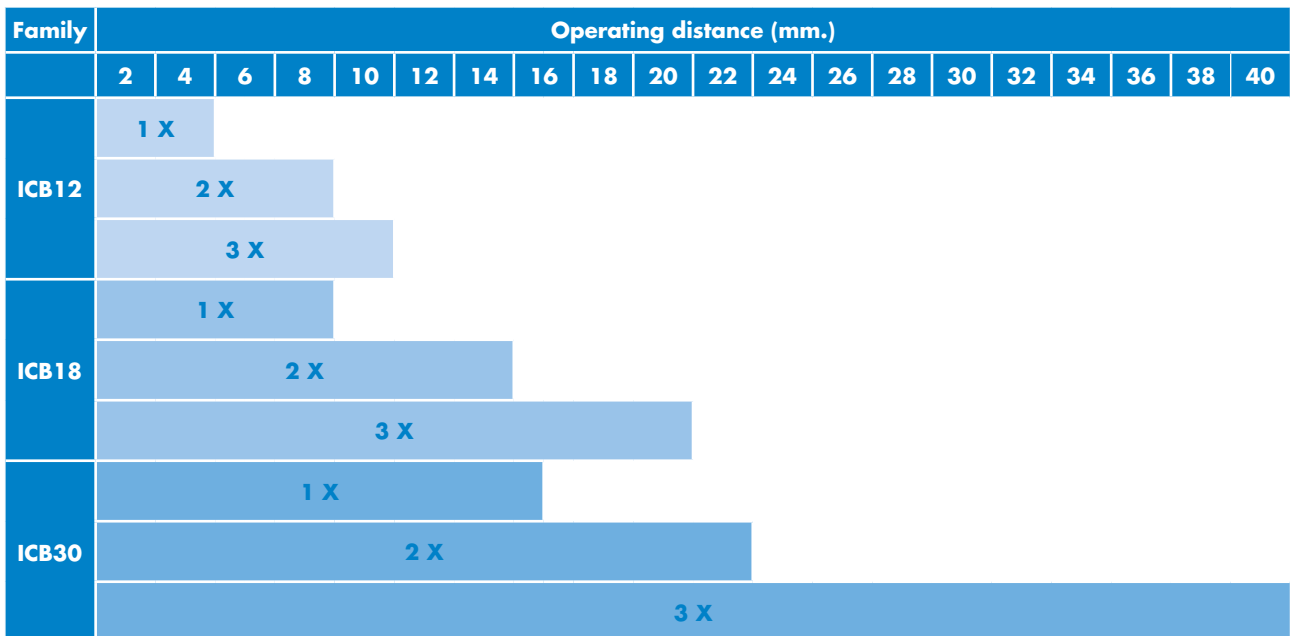
ICB: a complete range for any application

Family	Diameter	Operating distance	Switching frequency	Output	Connection
ICB12	M12	2 to 10 mm	up to 2000 Hz	NPN-PNP	Cable / Plug
ICB18	M18	5 to 20 mm	up to 1500 Hz	NPN-PNP	Cable / Plug
ICB30	M30	10 to 40 mm	up to 1000 Hz (except for ICB30 3X: ≤ 100 Hz)	NPN-PNP	Cable / Plug

ICB12 ICB18 ICB30



Operating distance



Your sensor - your way

Carlo Gavazzi is committed to providing the right solution to our OEM customers and their demanding application requirements.

This means that we are ready to customize proximity sensors to meet these specific demands for almost any application.

ICB series

Inductive proximity sensors

The new generation of inductive proximity sensors: ICB series

ICB 12 S 30 F 04 N O M1

Housing size: _____

- 12** 12 Ø mm
- 18** 18 Ø mm
- 30** 30 Ø mm

Housing length: _____

- S** Short body
- L** Long body

Thread length: _____

- 30** 30 mm
- ...
- 50** 50 mm

Detection principle: _____

- F** Flush
- N** Non-flush

Sensing distance: _____

- 02** 2 mm
- ...
- 40** 40 mm

Output type: _____

- N** NPN
- P** PNP

Output configuration: _____

- O** Normally open
- C** Normally closed
- A** Antivalent

Connection: _____

- M1** M12 disconnect plug
- 2 m PVC oil resistant cable

ICB 12 series (M12)

Standard sensing range (1 X)

Rated operating distance				2 mm		4 mm	
Installation type				Flush		Non-flush	
Barrel				Short	Long	Short	Long
3-wire	Cable	NPN	NO	ICB12S30F02NO	ICB12L50F02NO	ICB12S30N04NO	ICB12L50N04NO
			NC	ICB12S30F02NC	ICB12L50F02NC	ICB12S30N04NC	ICB12L50N04NC
		PNP	NO	ICB12S30F02PO	ICB12L50F02PO	ICB12S30N04PO	ICB12L50N04PO
			NC	ICB12S30F02PC	ICB12L50F02PC	ICB12S30N04PC	ICB12L50N04PC
	Plug	NPN	NO	ICB12S30F02NOM1	ICB12L50F02NOM1	ICB12S30N04NOM1	ICB12L50N04NOM1
			NC	ICB12S30F02NCM1	ICB12L50F02NCM1	ICB12S30N04NCM1	ICB12L50N04NCM1
		PNP	NO	ICB12S30F02POM1	ICB12L50F02POM1	ICB12S30N04POM1	ICB12L50N04POM1
			NC	ICB12S30F02PCM1	ICB12L50F02PCM1	ICB12S30N04PCM1	ICB12L50N04PCM1
4-wire	Cable	NPN	NO+NC	ICB12S30F02NA	ICB12L50F02NA	ICB12S30N04NA	ICB12L50N04NA
		PNP	NO+NC	ICB12S30F02PA	ICB12L50F02PA	ICB12S30N04PA	ICB12L50N04PA
	Plug	NPN	NO+NC	ICB12S30F02NAM1	ICB12L50F02NAM1	ICB12S30N04NAM1	ICB12L50N04NAM1
		PNP	NO+NC	ICB12S30F02PAM1	ICB12L50F02PAM1	ICB12S30N04PAM1	ICB12L50N04PAM1

Extended sensing range (2 X)

Rated operating distance				4 mm		8 mm	
Installation type				Flush		Non-flush	
Barrel				Short	Long	Short	Long
3-wire	Cable	NPN	NO	ICB12S30F04NO	ICB12L50F04NO	ICB12S30N08NO	ICB12L50N08NO
			NC	ICB12S30F04NC	ICB12L50F04NC	ICB12S30N08NC	ICB12L50N08NC
		PNP	NO	ICB12S30F04PO	ICB12L50F04PO	ICB12S30N08PO	ICB12L50N08PO
			NC	ICB12S30F04PC	ICB12L50F04PC	ICB12S30N08PC	ICB12L50N08PC
	Plug	NPN	NO	ICB12S30F04NOM1	ICB12L50F04NOM1	ICB12S30N08NOM1	ICB12L50N08NOM1
			NC	ICB12S30F04NCM1	ICB12L50F04NCM1	ICB12S30N08NCM1	ICB12L50N08NCM1
		PNP	NO	ICB12S30F04POM1	ICB12L50F04POM1	ICB12S30N08POM1	ICB12L50N08POM1
			NC	ICB12S30F04PCM1	ICB12L50F04PCM1	ICB12S30N08PCM1	ICB12L50N08PCM1
4-wire	Cable	NPN	NO+NC	ICB12S30F04NA	ICB12L50F04NA	ICB12S30N08NA	ICB12L50N08NA
		PNP	NO+NC	ICB12S30F04PA	ICB12L50F04PA	ICB12S30N08PA	ICB12L50N08PA
	Plug	NPN	NO+NC	ICB12S30F04NAM1	ICB12L50F04NAM1	ICB12S30N08NAM1	ICB12L50N08NAM1
		PNP	NO+NC	ICB12S30F04PAM1	ICB12L50F04PAM1	ICB12S30N08PAM1	ICB12L50N08PAM1

Increased sensing range (3 X)

Rated operating distance				6 mm		10 mm	
Installation type				Quasi-flush		Non-flush	
Barrel				Short	Long	Short	Long
3-wire	Cable	NPN	NO	ICB12S30F06NO	ICB12L50F06NO	ICB12S30N10NO	ICB12L50N10NO
			NC	ICB12S30F06NC	ICB12L50F06NC	ICB12S30N10NC	ICB12L50N10NC
		PNP	NO	ICB12S30F06PO	ICB12L50F06PO	ICB12S30N10PO	ICB12L50N10PO
			NC	ICB12S30F06PC	ICB12L50F06PC	ICB12S30N10PC	ICB12L50N10PC
	Plug	NPN	NO	ICB12S30F06NOM1	ICB12L50F06NOM1	ICB12S30N10NOM1	ICB12L50N10NOM1
			NC	ICB12S30F06NCM1	ICB12L50F06NCM1	ICB12S30N10NCM1	ICB12L50N10NCM1
		PNP	NO	ICB12S30F06POM1	ICB12L50F06POM1	ICB12S30N10POM1	ICB12L50N10POM1
			NC	ICB12S30F06PCM1	ICB12L50F06PCM1	ICB12S30N10PCM1	ICB12L50N10PCM1

ICB series

Inductive proximity sensors

ICB18 series (M18)

Standard sensing range (1 X)

Rated operating distance				5 mm		8 mm	
Installation type				Flush		Non-flush	
Barrel				Short	Long	Short	Long
3-wire	Cable	NPN	NO	ICB18S30F05NO	ICB18L50F05NO	ICB18S30N08NO	ICB18L50N08NO
			NC	ICB18S30F05NC	ICB18L50F05NC	ICB18S30N08NC	ICB18L50N08NC
		PNP	NO	ICB18S30F05PO	ICB18L50F05PO	ICB18S30N08PO	ICB18L50N08PO
			NC	ICB18S30F05PC	ICB18L50F05PC	ICB18S30N08PC	ICB18L50N08PC
	Plug	NPN	NO	ICB18S30F05NOM1	ICB18L50F05NOM1	ICB18S30N08NOM1	ICB18L50N08NOM1
			NC	ICB18S30F05NCM1	ICB18L50F05NCM1	ICB18S30N08NCM1	ICB18L50N08NCM1
		PNP	NO	ICB18S30F05POM1	ICB18L50F05POM1	ICB18S30N08POM1	ICB18L50N08POM1
			NC	ICB18S30F05PCM1	ICB18L50F05PCM1	ICB18S30N08PCM1	ICB18L50N08PCM1
4-wire	Cable	NPN	NO+NC	ICB18S30F05NA	ICB18L50F05NA	ICB18S30N08NA	ICB18L50N08NA
		PNP	NO+NC	ICB18S30F05PA	ICB18L50F05PA	ICB18S30N08PA	ICB18L50N08PA
	Plug	NPN	NO+NC	ICB18S30F05NAM1	ICB18L50F05NAM1	ICB18S30N08NAM1	ICB18L50N08NAM1
		PNP	NO+NC	ICB18S30F05PAM1	ICB18L50F05PAM1	ICB18S30N08PAM1	ICB18L50N08PAM1

Extended sensing range (2 X)

Rated operating distance				8 mm		14 mm	
Installation type				Flush		Non-flush	
Barrel				Short	Long	Short	Long
3-wire	Cable	NPN	NO	ICB18S30F08NO	ICB18L50F08NO	ICB18S30N14NO	ICB18L50N14NO
			NC	ICB18S30F08NC	ICB18L50F08NC	ICB18S30N14NC	ICB18L50N14NC
		PNP	NO	ICB18S30F08PO	ICB18L50F08PO	ICB18S30N14PO	ICB18L50N14PO
			NC	ICB18S30F08PC	ICB18L50F08PC	ICB18S30N14PC	ICB18L50N14PC
	Plug	NPN	NO	ICB18S30F08NOM1	ICB18L50F08NOM1	ICB18S30N14NOM1	ICB18L50N14NOM1
			NC	ICB18S30F08NCM1	ICB18L50F08NCM1	ICB18S30N14NCM1	ICB18L50N14NCM1
		PNP	NO	ICB18S30F08POM1	ICB18L50F08POM1	ICB18S30N14POM1	ICB18L50N14POM1
			NC	ICB18S30F08PCM1	ICB18L50F08PCM1	ICB18S30N14PCM1	ICB18L50N14PCM1
4-wire	Cable	NPN	NO+NC	ICB18S30F08NA	ICB18L50F08NA	ICB18S30N14NA	ICB18L50N14NA
		PNP	NO+NC	ICB18S30F08PA	ICB18L50F08PA	ICB18S30N14PA	ICB18L50N14PA
	Plug	NPN	NO+NC	ICB18S30F08NAM1	ICB18L50F08NAM1	ICB18S30N14NAM1	ICB18L50N14NAM1
		PNP	NO+NC	ICB18S30F08PAM1	ICB18L50F08PAM1	ICB18S30N14PAM1	ICB18L50N14PAM1

Increased sensing range (3 X)

Rated operating distance				12 mm		20 mm	
Installation type				Quasi-flush		Non-flush	
Barrel				Short	Long	Short	Long
3-wire	Cable	NPN	NO	ICB18S30F12NO	ICB18L50F12NO	ICB18S30N20NO	ICB18L50N20NO
			NC	ICB18S30F12NC	ICB18L50F12NC	ICB18S30N20NC	ICB18L50N20NC
		PNP	NO	ICB18S30F12PO	ICB18L50F12PO	ICB18S30N20PO	ICB18L50N20PO
			NC	ICB18S30F12PC	ICB18L50F12PC	ICB18S30N20PC	ICB18L50N20PC
	Plug	NPN	NO	ICB18S30F12NOM1	ICB18L50F12NOM1	ICB18S30N20NOM1	ICB18L50N20NOM1
			NC	ICB18S30F12NCM1	ICB18L50F12NCM1	ICB18S30N20NCM1	ICB18L50N20NCM1
		PNP	NO	ICB18S30F12POM1	ICB18L50F12POM1	ICB18S30N20POM1	ICB18L50N20POM1
			NC	ICB18S30F12PCM1	ICB18L50F12PCM1	ICB18S30N20PCM1	ICB18L50N20PCM1

ICB30 series (M30)

Standard sensing range (1 X)

Rated operating distance				10 mm		15 mm	
Installation type				Flush		Non-flush	
Barrel				Short	Long	Short	Long
3-wire	Cable	NPN	NO	ICB30S30F10NO	ICB30L50F10NO	ICB30S30N15NO	ICB30L50N15NO
			NC	ICB30S30F10NC	ICB30L50F10NC	ICB30S30N15NC	ICB30L50N15NC
		PNP	NO	ICB30S30F10PO	ICB30L50F10PO	ICB30S30N15PO	ICB30L50N15PO
			NC	ICB30S30F10PC	ICB30L50F10PC	ICB30S30N15PC	ICB30L50N15PC
	Plug	NPN	NO	ICB30S30F10NOM1	ICB30L50F10NOM1	ICB30S30N15NOM1	ICB30L50N15NOM1
			NC	ICB30S30F10NCM1	ICB30L50F10NCM1	ICB30S30N15NCM1	ICB30L50N15NCM1
		PNP	NO	ICB30S30F10POM1	ICB30L50F10POM1	ICB30S30N15POM1	ICB30L50N15POM1
			NC	ICB30S30F10PCM1	ICB30L50F10PCM1	ICB30S30N15PCM1	ICB30L50N15PCM1
4-wire	Cable	NPN	NO+NC	ICB30S30F10NA	ICB30L50F10NA	ICB30S30N15NA	ICB30L50N15NA
		PNP	NO+NC	ICB30S30F10PA	ICB30L50F10PA	ICB30S30N15PA	ICB30L50N15PA
	Plug	NPN	NO+NC	ICB30S30F10NAM1	ICB30L50F10NAM1	ICB30S30N15NAM1	ICB30L50N15NAM1
		PNP	NO+NC	ICB30S30F10PAM1	ICB30L50F10PAM1	ICB30S30N15PAM1	ICB30L50N15PAM1

Extended sensing range (2 X)

Rated operating distance				15 mm		22 mm	
Installation type				Flush		Non-flush	
Barrel				Short	Long	Short	Long
3-wire	Cable	NPN	NO	ICB30S30F15NO	ICB30L50F15NO	ICB30S30N22NO	ICB30L50N22NO
			NC	ICB30S30F15NC	ICB30L50F15NC	ICB30S30N22NC	ICB30L50N22NC
		PNP	NO	ICB30S30F15PO	ICB30L50F15PO	ICB30S30N22PO	ICB30L50N22PO
			NC	ICB30S30F15PC	ICB30L50F15PC	ICB30S30N22PC	ICB30L50N22PC
	Plug	NPN	NO	ICB30S30F15NOM1	ICB30L50F15NOM1	ICB30S30N22NOM1	ICB30L50N22NOM1
			NC	ICB30S30F15NCM1	ICB30L50F15NCM1	ICB30S30N22NCM1	ICB30L50N22NCM1
		PNP	NO	ICB30S30F15POM1	ICB30L50F15POM1	ICB30S30N22POM1	ICB30L50N22POM1
			NC	ICB30S30F15PCM1	ICB30L50F15PCM1	ICB30S30N22PCM1	ICB30L50N22PCM1
4-wire	Cable	NPN	NO+NC	ICB30S30F15NA	ICB30L50F15NA	ICB30S30N22NA	ICB30L50N22NA
		PNP	NO+NC	ICB30S30F15PA	ICB30L50F15PA	ICB30S30N22PA	ICB30L50N22PA
	Plug	NPN	NO+NC	ICB30S30F15NAM1	ICB30L50F15NAM1	ICB30S30N22NAM1	ICB30L50N22NAM1
		PNP	NO+NC	ICB30S30F15PAM1	ICB30L50F15PAM1	ICB30S30N22PAM1	ICB30L50N22PAM1

Increased sensing range (3 X)

Rated operating distance				22 mm		40 mm	
Installation type				Quasi-flush		Non-flush	
Barrel				Short	Long	Short	Long
3-wire	Cable	NPN	NO	ICB30S30F22NO	ICB30L50F22NO	ICB30S30N40NO	ICB30L50N40NO
			NC	ICB30S30F22NC	ICB30L50F22NC	ICB30S30N40NC	ICB30L50N40NC
		PNP	NO	ICB30S30F22PO	ICB30L50F22PO	ICB30S30N40PO	ICB30L50N40PO
			NC	ICB30S30F22PC	ICB30L50F22PC	ICB30S30N40PC	ICB30L50N40PC
	Plug	NPN	NO	ICB30S30F22NOM1	ICB30L50F22NOM1	ICB30S30N40NOM1	ICB30L50N40NOM1
			NC	ICB30S30F22NCM1	ICB30L50F22NCM1	ICB30S30N40NCM1	ICB30L50N40NCM1
		PNP	NO	ICB30S30F22POM1	ICB30L50F22POM1	ICB30S30N40POM1	ICB30L50N40POM1
			NC	ICB30S30F22PCM1	ICB30L50F22PCM1	ICB30S30N40PCM1	ICB30L50N40PCM1

OUR SALES NETWORK IN EUROPE

AUSTRIA

Carlo Gavazzi GmbH
Ketzergasse 374,
A-1230 Wien
Tel: +43 1 888 4112
Fax: +43 1 889 10 53
office@carlo gavazzi.at

FRANCE

Carlo Gavazzi Sarl
Zac de Paris Nord II, 69, rue de la Belle Etoile,
F-95956 Roissy CDG Cedex
Tel: +33 1 49 38 98 60
Fax: +33 1 48 63 27 43
french.team@carlo gavazzi.fr

ITALY

Carlo Gavazzi SpA
Via Milano 13,
I-20020 Lainate
Tel: +39 02 931 761
Fax: +39 02 931 763 01
info@gavazziacbu.it

SPAIN

Carlo Gavazzi SA
Avda. Iparraguirre, 80-82,
E-48940 Leioa (Bizkaia)
Tel: +34 94 480 4037
Fax: +34 94 431 6081
gavazzi@gavazzi.es

BELGIUM

Carlo Gavazzi NV/SA
Mechelsesteenweg 311,
B-1800 Vilvoorde
Tel: +32 2 257 4120
Fax: +32 2 257 41 25
sales@carlo gavazzi.be

GERMANY

Carlo Gavazzi GmbH
Pfnorstr. 10-14
D-64293 Darmstadt
Tel: +49 6151 81000
Fax: +49 6151 81 00 40
info@gavazzi.de

NETHERLANDS

Carlo Gavazzi BV
Wijkermeerweg 23,
NL-1948 NT Beverwijk
Tel: +31 251 22 9345
Fax: +31 251 22 60 55
info@carlo gavazzi.nl

SWEDEN

Carlo Gavazzi AB
V:a Kyrkogatan 1,
S-652 24 Karlstad
Tel: +46 54 85 1125
Fax: +46 54 85 11 77
info@carlo gavazzi.se

DENMARK

Carlo Gavazzi Handel A/S
Over Hadstenevej 40,
DK-8370 Hadsten
Tel: +45 89 60 6100
Fax: +45 86 98 15 30
handel@gavazzi.dk

GREAT BRITAIN

Carlo Gavazzi UK Ltd
4.4 Frimley Business Park,
Frimley, Camberley, Surrey GU16 7SG
Tel: +44 1 276 854 110
Fax: +44 1 276 682 140
sales@carlo gavazzi.co.uk

NORWAY

Carlo Gavazzi AS
Melkeveien 13,
N-3919 Porsgrunn
Tel: +47 35 93 0800
Fax: +47 35 93 08 01
post@gavazzi.no

SWITZERLAND

Carlo Gavazzi AG
Verkauf Schweiz/Vente Suisse
Sumpfstrasse 3,
CH-6312 Steinhausen
Tel: +41 41 747 4535
Fax: +41 41 740 45 40
info@carlo gavazzi.ch

FINLAND

Carlo Gavazzi OY AB
Ahventie, 4 B,
FI-02170 Espoo
Tel: +358 9 756 2000
Fax: +358 9 756 20010
myynti@gavazzi.fi

PORTUGAL

Carlo Gavazzi Lda
Rua dos Jerónimos 38-B,
P-1400-212 Lisboa
Tel: +351 21 361 7060
Fax: +351 21 362 13 73
carlo gavazzi@carlo gavazzi.pt

OUR SALES NETWORK IN THE AMERICAS

USA

Carlo Gavazzi Inc.
750 Hastings Lane,
Buffalo Grove, IL 60089, USA
Tel: +1 847 465 6100
Fax: +1 847 465 7373
sales@carlo gavazzi.com

CANADA

Carlo Gavazzi Inc.
2660 Meadowvale Boulevard,
Mississauga, ON L5N 6M6, Canada
Tel: +1 905 542 0979
Fax: +1 905 542 22 48
gavazzi@carlo gavazzi.com

MEXICO

Carlo Gavazzi Mexico S.A. de C.V.
Calle La Montaña no. 28, Fracc. Los Pastores
Naucalpan de Juárez, EDOMEX CP 53340
Tel & Fax: +52.55.5373.7042
mexicosales@carlo gavazzi.com

BRAZIL

Carlo Gavazzi Automação Ltda. Av.
Francisco Matarazzo, 1752
Conj 2108 - Barra Funda - São Paulo/SP
Tel: +55 11 3052 0832
Fax: +55 11 3057 1753
info@carlo gavazzi.com.br

OUR SALES NETWORK IN ASIA AND PACIFIC

SINGAPORE

Carlo Gavazzi Automation Singapore Pte. Ltd.
61 Tai Seng Avenue #05-06
Print Media Hub @ Paya Lebar iPark
Singapore 534167
Tel: +65 67 466 990
Fax: +65 67 461 980
info@carlo gavazzi.com.sg

MALAYSIA

Carlo Gavazzi Automation (M) SDN. BHD.
D12-06-G, Block D12,
Pusat Perdagangan Dana 1,
Jalan PJU 1A/46, 47301 Petaling Jaya,
Selangor, Malaysia.
Tel: +60 3 7842 7299
Fax: +60 3 7842 7399
sales@gavazzi-asia.com

CHINA

Carlo Gavazzi Automation
(China) Co. Ltd.
Unit 2308, 23/F.,
News Building, Block 1, 1002
Middle Shennan Zhong Road,
Shenzhen, China
Tel: +86 755 83699500
Fax: +86 755 83699300
sales@carlo gavazzi.cn

HONG KONG

Carlo Gavazzi Automation
Hong Kong Ltd.
Unit 3 12/F Crown Industrial Bldg.,
106 How Ming St., Kwun Tong,
Kowloon, Hong Kong
Tel: +852 23041228
Fax: +852 23443689

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Hadsten

MALTA

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Zejtun

ITALY

Carlo Gavazzi Controls SpA
Belluno

LITHUANIA

Uab Carlo Gavazzi Industri Kaunas
Kaunas

CHINA

Carlo Gavazzi Automation (Kunshan) Co., Ltd.
Kunshan

HEADQUARTERS

Carlo Gavazzi Automation SpA
Via Milano, 13
I-20020 - Lainate (MI) - ITALY
Tel: +39 02 931 761
info@gavazziautomation.com



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