CARLO GAVAZZI
Automation Components

CARLO GAVAZZI

ICB series - Inductive proximity sensors

Sensors

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

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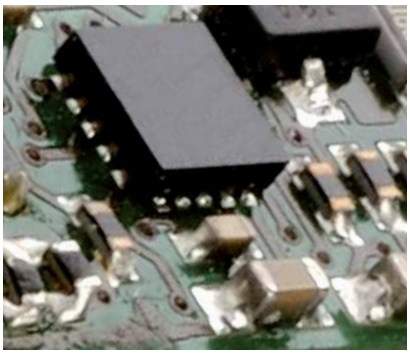
Main features

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

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

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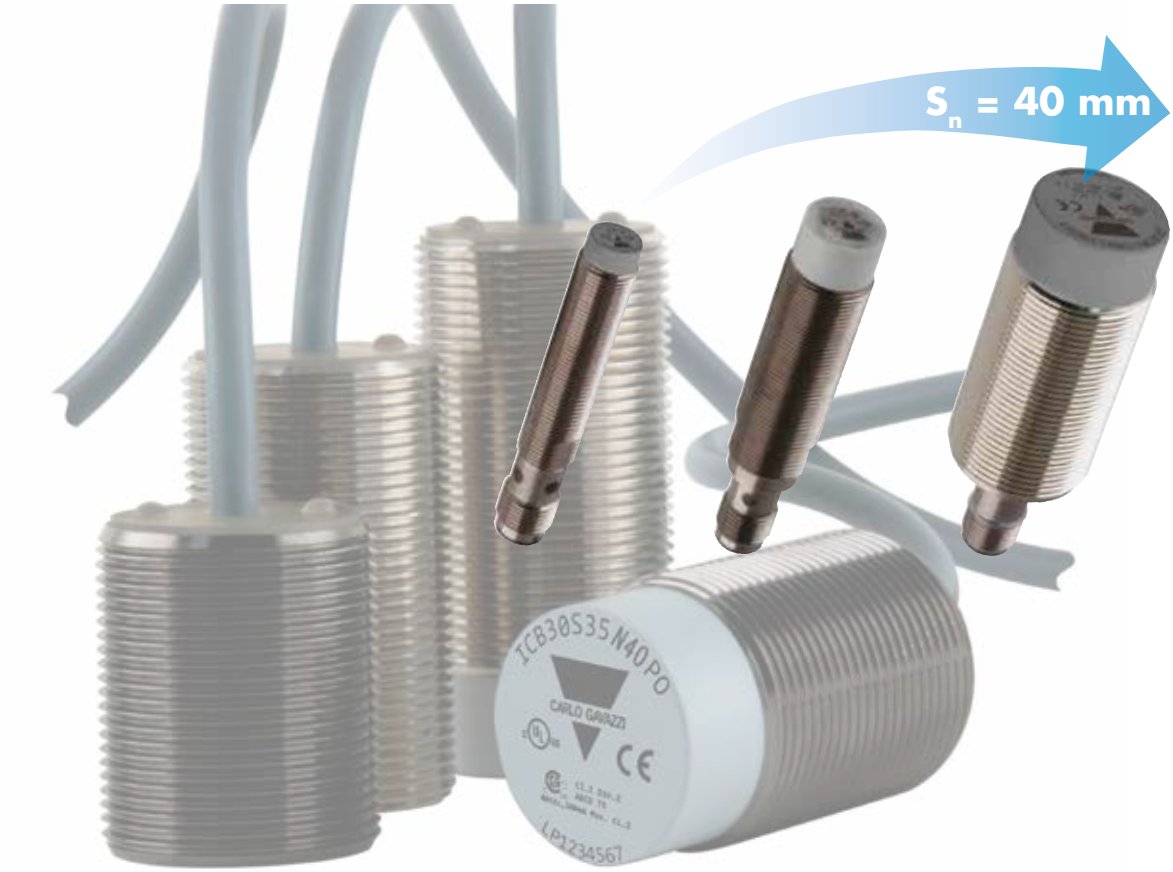
ICB series - Triple sensing distance



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.

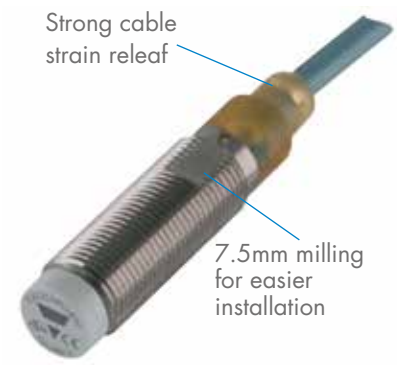
All options already available in ICB standard and extended series are now also available in increased operating distance:

- 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.

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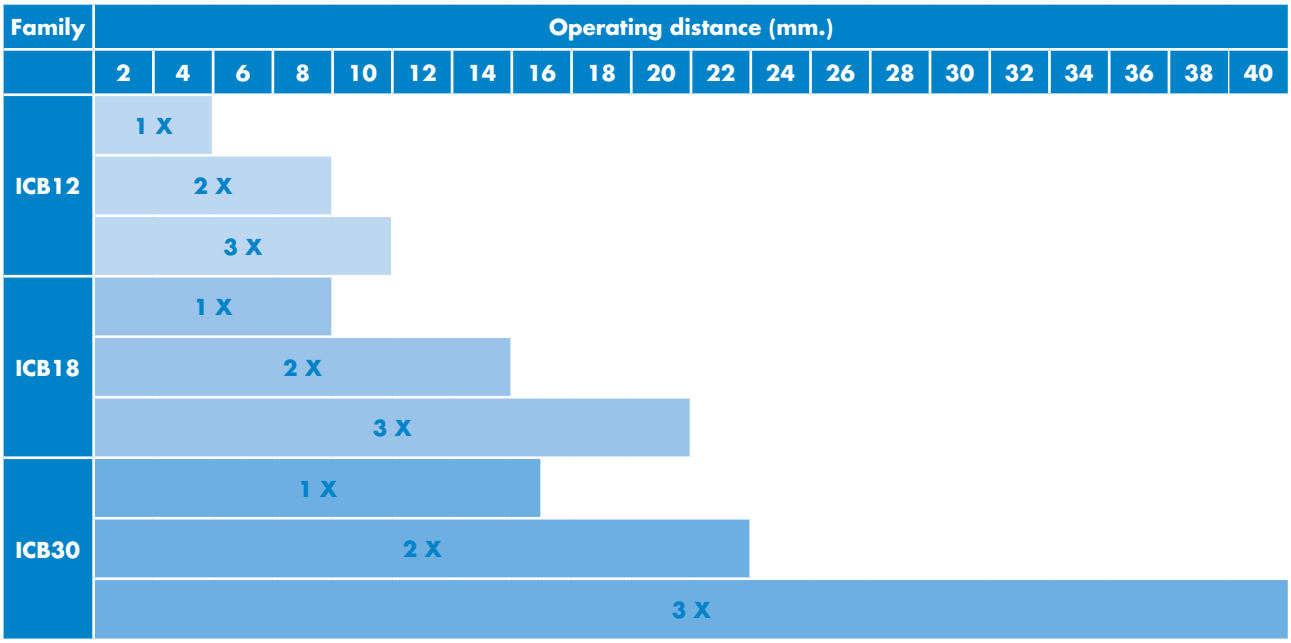
ICB: a complete range for any application

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

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ICB12 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**

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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**

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