

Inductive sensors

Sensors

Inductive sensors

Our wide range

With over 50 years of experience in manufacturing and selling proximity sensors, Carlo Gavazzi offers a wide range of inductive sensors, built to the highest-quality standards and easily customizable to specific OEM customer applications. Inductive sensors detect all ferrous and non-ferrous metals without physical contact and provide a durable solution in harsh environments, conveying reliable signals to the PLC on the position/presence of moving parts of the machinery. They are also used for rotational speed monitoring. They are not affected by dust, oil, water, or vibrations and they can operate at high switching frequencies without reducing their long operating life.



High performance inductive proximity sensors

The applications of inductive sensors are numerous in many industrial markets: material handling, food & beverage, agriculture, heavy and mobile equipment as well as machine tools and packaging.

Carlo Gavazzi's inductive sensors provide a reliable and cost effective solution in machinery and automation equipment.

The range includes:

- M5, M8, M12, M18, M30 housings
- Flat pack and rectangular type series
- Slot sensors
- Sensing distance from 0.8 up to 40 mm
- 2-wire, 3-wire and 4-wire
- NAMUR, DC and AC

Power supply type:

- 2-wire, 3-wire and 4-wire
- DC and AC
- NAMUR

Several installation possibilities:

- Flush, quasi-flush, non-flush versions
- Quick-disconnect or cable versions
- NPN or PNP output types with NO, NC or antivalent output functions

Excellent performance:

- High precision and temperature stability
- Fully protected against short circuit, reverse polarity and transients
- Enhanced diagnostic functions such as short circuit and overload indication and set-up assistance
- Permanently legible, laser-engraved serial number and part number for assured traceability

High performance inductive proximity sensors

ICB Basic

All the ICB sensors have a rugged nickel plated brass construction and feature a new generation of microprocessor, which allows final calibration of the sensor at the end of the assembly

process, providing repeatable and highly accurate operation and increased EMC robustness.



ICB Triple distance

The ICB is also available with an extended sensing range of up to three times the standard sensing distance, with a complete range in M12, M18

and M30 housings and advanced diagnostic LED clearly visible from any direction.



ICS Washdown

The ICS series features an extremely robust design with a high grade stainless steel housing and extended operating temperature of between -40°C and +85°C (-40°F to +185°F), a superior resistance to high pressure and high temperature cleaning processes

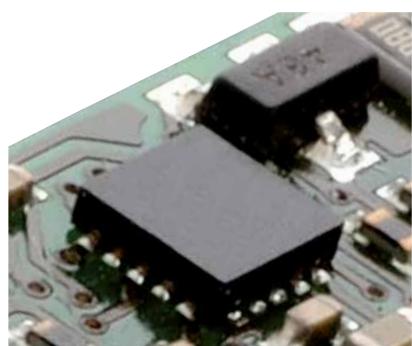
and the ability to prevent water and vapour access through the front cap or connector of the sensors.

The ICS sensors are ECOLAB certified and rated to IP67, IP68 and IP69K standards.

IA Miniature

The IA05, IA06 and IA08 series are available in short and long stainless steel housings to provide a high level of mechanical protection.

They are the ideal solution where space is limited, meeting the trend of more and more compact machinery. There are quick-disconnect or cable versions.



IA Full metal housing

Full metal housed sensors have been specifically designed for harsh application conditions, where chemical compatibility to industrial caustic-acid conditions and mechanical resistance

to impact are required. They are available in M8, M12, M18 and M30 short or long barrel housings with one-piece stainless steel face/barrel construction.



Special versions

The range is completed by a series of special versions such as:

- the EI flat pack series, ideal for use in conveying and material handling applications
- the IC/ID rectangular types suitable for the control of axial and rotational movements

- the DU slotted sensors for small part detection
- the IC40 rotatable-head switches with the sensing face adjustable to up to 5 positions
- the IA high temperature series with extended operating temperature range.

Inductive sensors

Selection guide

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 vibration, shock performance, and a reliable connection system between the cable and the barrel.

The very high resolution and quick response time of the ICB sensors allow an optimized and reliable 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 are particularly suitable for the agricultural sector.

The possibility to have customizable termination options together with

the high durability and resistance to extreme conditions, such as oily and dusty environment, make ICB sensors the ideal solution.



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 higher productivity and quality from the automated process. ICB series is an ideal choice, thanks

to the high precision and temperature stability. The microcontroller allows personalized solutions with programmable sensing distance and frequency.



Heavy mobile equipment

The installation of high reliability electronic components in earth-moving vehicles is critical, due to the harsh conditions of the environment. These machineries are exposed to difficult outdoor conditions, such as wide temperature variations, high stress due to cleaning processes with high pressure and high temperature steam jets. The new ICS sensors

provide reliable position detection of the moving parts even in such harsh environment, thanks to the excellent tightness with certified IP68 and IP69K ratings, and to the wide operating temperature range. The high operating frequency also allows for high speed detection of a rotating gear.



Packaging and food & beverage

Companies that manufacture packaging machines for food need the right electronic components to assure the best application control, and continuous operation even after the periodic harsh cleaning process. The ICS washdown sensors have been designed for food & beverage applications. The ECOLAB certification ensures the resistance to industrial

cleaning agents, such as alkaline or chlorine foam and acid foam disinfectants. The material used for the plastic cap is FDA certified. The robust design along with the IP68 and IP69K protection ratings, make the ICS the optimal choice in these demanding applications.



Renewable energy

A solar tracker keeps a solar photovoltaic panel oriented toward the sun throughout the day, in order to maximize energy output. Inductive sensors can be used to provide feedback on the position of the tracker during the normal working function, or in some particular situations, such as wind security position. ICS proximity sensors ensure maximum

performance, durability, and reliability in any condition, thanks to a robust mechanical design and to the onboard advanced microprocessor, that provides the most accurate detection in the whole temperature range, between -40°C and +85°C (-40°F and +185°F).



Inductive sensors

Selection guide

DC application

Diameter	M5	Ø 6.5	Ø 6.5
Sensing distance (S_n)	1 mm 0,8 mm (IA05.....NCP)	1 mm	2 mm
Range	Standard	Standard	Standard
Mounting	Flush	Flush	Non-flush



Family	IA05	IA06	IA06
Housing	Short body	Short body	Short body
Material	Stainless steel	Stainless steel	Stainless steel
Degree of protection	IP 67	IP 67	IP 67
Operating frequency	2 kHz	2 kHz	2 kHz
Operating temperature	-25° to 70°C (-13° to 158°F)	-25° to 70°C (-13° to 158°F)	-25° to 70°C (-13° to 158°F)
Rated operating voltage	10 to 30 V DC	10 to 30 V DC	10 to 30 V DC
Approvals/Marks	CE	CE	CE

References

2-wire	Cable	NO		
		NC		
	Plug	NO		
		NC		
3-wire	Cable	NPN	IA05BSF10NOP *	IA06BSF10NO
		NC	IA05BSF10NCP	IA06BSF10NC
		PNP	IA05BSF10POP *	IA06BSF10PO
		NC	IA05BSF10PCP	IA06BSF10PC
	Plug	NPN	IA05BSF10NOM5P	IA06BSN20NO
		NC	IA05BSF10NCM5P	IA06BSN20NC
		PNP	IA05BSF10POM5P	IA06BSN20PO
		NC	IA05BSF10PCM5P	IA06BSN20PC
4-wire	Cable	NPN	NO+NC	
		PNP	NO+NC	
	Plug	NPN	NO+NC	
		PNP	NO+NC	

* Also available Ø4 version

DC application

M8	M8	M8	M8	M8
1.5 mm	1.5 mm	2 mm	2.5 mm	2.5 mm
Standard	Standard	Extended	Standard	Standard
Flush	Flush	Flush	Non-flush	Non-flush
				
IA08	IA08	IA08	IA08	IA08
Short body	Long body	Short body	Short body	Long body
Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
IP 67	IP 67	IP 67	IP 67	IP 67
2 kHz	2 kHz	2 kHz	2 kHz	2 kHz
-25° to 70°C (-13° to 158°F)	-25° to 70°C (-13° to 158°F)			
10 to 30 V DC	10 to 30 V DC	10 to 60 V DC (2-wire) 10 to 30 V DC (3-wire)	10 to 30 V DC	10 to 30 V DC
CE, UL, CSA	CE, UL, CSA	CE, UL (except for 2-wire), CSA	CE, UL, CSA	CE, UL, CSA
IA08BSF02DO				
IA08BSF02DC				

IA08BSF15NO	IA08BLF15NO	IA08BSF20NO	IA08BSN25NO	IA08BLN25NO
IA08BSF15NC	IA08BLF15NC	IA08BSF20NC	IA08BSN25NC	IA08BLN25NC
IA08BSF15PO	IA08BLF15PO	IA08BSF20PO	IA08BSN25PO	IA08BLN25PO
IA08BSF15PC	IA08BLF15PC	IA08BSF20PC	IA08BSN25PC	IA08BLN25PC
IA08BSF15NOM5	IA08BLF15NOMx	IA08BSF20NOM5	IA08BSN25NOM5	IA08BLN25NOMx
IA08BSF15NCM5	IA08BLF15NCM1	IA08BSF20NCM5	IA08BSN25NCM5	IA08BLN25NCM1
IA08BSF15POM5	IA08BLF15POMx	IA08BSF20POM5	IA08BSN25POM5	IA08BLN25POMx
IA08BSF15PCM5	IA08BLF15PCMx	IA08BSF20PCM5	IA08BSN25PCM5	IA08BLN25PCMx

x = 1 → M12-plug version
= 5 → M8-plug version

Inductive sensors

Selection guide

DC application

Diameter	M8	M12	M12
Sensing distance (S_n)	4 mm	2 mm	2 mm
Range	Extended	Standard	Standard
Mounting	Non-flush	Flush	Flush



Family	IA08	ICB12	ICB12
Housing	Short body	Short body	Long body
Material	Stainless steel	Nickel-plated brass	Nickel-plated brass
Degree of protection	IP 67	IP 67	IP 67
Operating frequency	2 kHz (2-wire) 1 kHz (3-wire)	2 kHz	2 kHz
Operating temperature	-25° to 70°C (-13° to 158°F)	-25° to 70°C (-13° to 158°F)	-25° to 70°C (-13° to 158°F)
Rated operating voltage	10 to 60 V DC (2-wire) 10 to 30 V DC (3-wire)	10 to 36 V DC	10 to 36 V DC
Approvals/Marks	CE, UL (except for 2-wire), CSA	CE, cULus, cCSAus	CE, cULus, cCSAus

References

2-wire	Cable	NO	IA08BSN04DO	
		NC	IA08BSN04DC	
	Plug	NO		
		NC		
3-wire	Cable	NPN	NO IA08BSN40NO	ICB12S30F02NO ICB12L50F02NO
		NC	IA08BSN40NC	ICB12S30F02NC ICB12L50F02NC
		PNP	NO IA08BSN40PO	ICB12S30F02PO ICB12L50F02PO
		NC	IA08BSN40PC	ICB12S30F02PC ICB12L50F02PC
	Plug	NPN	NO IA08BSN40NOM5	ICB12S30F02NOM1 ICB12L50F02NOM1
		NC	IA08BSN40NCM5	ICB12S30F02NCM1 ICB12L50F02NCM1
		PNP	NO IA08BSN40POM5	ICB12S30F02POM1 ICB12L50F02POM1
		NC	IA08BSN40PCM5	ICB12S30F02PCM1 ICB12L50F02PCM1
4-wire	Cable	NPN	NO+NC	
		PNP	NO+NC	
	Plug	NPN	NO+NC	
		PNP	NO+NC	

DC application

M12	M12	M12	M12	M12
2 mm	2 mm	2 mm	2 mm	4 mm
Standard	Standard	Standard	Standard	Standard
Flush	Flush	Flush	Flush	Non-flush
				
ICS12	EI12	EI12	EI12	ICB12
Long body	Long body	Short body	Long body	Short body
Stainless steel	Thermoplastic polyester	Stainless steel	Stainless steel	Nickel-plated brass
IP 67, IP68, IP69K	IP 67	IP 67	IP 67	IP 67
2 kHz	800 Hz	800 Hz	800 Hz	2 kHz
-40° to 80°C (-40° to 176°F)	-25° to 70°C (-13° to 158°F)	-25° to 70°C (-13° to 158°F)	-25° to 70°C (-13° to 158°F)	-25° to 70°C (-13° to 158°F)
10 to 36 V DC	10 to 40 V DC	10 to 40 V DC	10 to 40 V DC	10 to 36 V DC
CE, cULus, ECOLAB, cCSAus	CE, UL, CSA	CE, UL, CSA	CE, UL, CSA	CE, cULus, cCSAus

EI1202NPOPL	EI1202NPOSS	EI1202NPOS	ICB12S30N04NO
	EI1202NPCSS		ICB12S30N04NC
EI1202PPOPL	EI1202PPOSS	EI1202PPPOS	ICB12S30N04PO
	EI1202PPCSS	EI1202PPCSL	ICB12S30N04PC
ICS12LF02NOM1-FB	EI1202NPOSS-1	EI1202NPOS-1	ICB12S30N04NOM1
ICS12LF02NCM1-FB	EI1202NPCSS-1		ICB12S30N04NCM1
ICS12LF02POM1-FB	EI1202PPOSS-1	EI1202PPPOS-1	ICB12S30N04POM1
ICS12LF02PCM1-FB	EI1202PPCSS-1		ICB12S30N04PCM1

Inductive sensors

Selection guide

DC application

Diameter	M12	M12	M12
Sensing distance (S_n)	4 mm	4 mm	4 mm
Range	Standard	Standard	Standard
Mounting	Non-flush	Non-flush	Non-flush



Family	ICB12	ICS12	EI12
Housing	Long body	Long body	Short body
Material	Nickel-plated brass	Stainless steel	Thermoplastic polyester
Degree of protection	IP 67	IP 67, IP68, IP69K	IP 67
Operating frequency	2 kHz	2 kHz	500 Hz
Operating temperature	-25° to 70°C (-13° to 158°F)	-40° to 80°C (-40° to 176°F)	-25° to 70°C (-13° to 158°F)
Rated operating voltage	10 to 36 V DC	10 to 36 V DC	10 to 40 V DC
Approvals/Marks	CE, cULus, cCSAus	CE, cULus, ECOLAB, cCSAus	CE, UL, CSA

References

2-wire	Cable	NO	
		NC	
	Plug	NO	
		NC	
3-wire	Cable	NPN	ICB12L50N04NO
		NC	ICB12L50N04NC
		NPN	ICB12L50N04PO
		NC	ICB12L50N04PC
	Plug	NPN	ICB12L50N04NOM1 ICS12LN04NOM1-FB
		NC	ICB12L50N04NCM1 ICS12LN04NCM1-FB
		NPN	ICB12L50N04POM1 ICS12LN04POM1-FB
		NC	ICB12L50N04PCM1 ICS12LN04PCM1-FB
4-wire	Cable	NPN	NO+NC
		PNP	NO+NC
	Plug	NPN	NO+NC
		PNP	NO+NC

DC application

M12	M12	M12	M12	M12
4 mm	4 mm	4 mm	4 mm	4 mm
Standard	Standard	Standard	Extended	Extended
Non-flush	Non-flush	Non-flush	Flush	Flush



EI12	EI12	EI12	IA12	ICB12
Long body	Short body	Long body	Short body	Extra short body
Thermoplastic polyester	Stainless steel	Stainless steel	Nickel-plated brass	Nickel-plated brass
IP 67				
500 Hz	500 Hz	500 Hz	1 kHz	2 kHz
-25° to 70°C (-13° to 158°F)	-25° to 80°C (-13° to 176°F)			
10 to 40 V DC	10 to 36 V DC			
CE, UL, CSA	CE, UL, CSA	CE, UL, CSA	CE, UL, CSA	CE, cULus, cCSAus

IA12DSF04DO

IA12DSF04DC

IA12ASF04DOM1

IA12ASF04DCM1

EI1204NPOPL	EI1204NPOSS	EI1204NPOS	ICB12S23F04NO
	EI1204NPCSS		ICB12S23F04NC
EI1204PPOPL	EI1204PPOSS	EI1204PPOS	ICB12S23F04PO
	EI1204PPCSS	EI1204PPCS	ICB12S23F04PC
	EI1204NPOSS-1	EI1204NPOS-1	
	EI1204NPCSS-1		
	EI1204PPOSS-1	EI1204PPOS-1	
	EI1204PPCSS-1		

Inductive sensors

Selection guide

DC application

Diameter	M12	M12	M12
Sensing distance (S_n)	4 mm	4 mm	4 mm
Range	Extended	Extended	Extended
Mounting	Flush	Flush	Flush



Family	ICB12	ICB12	ICS12
Housing	Short body	Long body	Long body
Material	Nickel-plated brass	Nickel-plated brass	Stainless steel
Degree of protection	IP 67	IP 67	IP 67, IP68, IP69K
Operating frequency	2 kHz	2 kHz	2 kHz
Operating temperature	-25° to 70°C (-13° to 158°F)	-25° to 70°C (-13° to 158°F)	-40° to 80°C (-40° to 176°F)
Rated operating voltage	10 to 36 V DC	10 to 36 V DC	10 to 36 V DC
Approvals/Marks	CE, cULus, cCSAus	CE, cULus, cCSAus	CE, cULus, ECOLAB, cCSAus

References

2-wire	Cable	NO		
		NC		
	Plug	NO		
		NC		
3-wire	Cable	NPN	ICB12S30F04NO	ICB12L50F04NO
		NC	ICB12S30F04NC	ICB12L50F04NC
		PNP	ICB12S30F04PO	ICB12L50F04PO
		NC	ICB12S30F04PC	ICB12L50F04PC
	Plug	NPN	ICB12S30F04NOM1	ICB12L50F04NOM1
		NC	ICB12S30F04NCM1	ICB12L50F04NCM1
		PNP	ICB12S30F04POM1	ICB12L50F04POM1
		NC	ICB12S30F04PCM1	ICB12L50F04PCM1
4-wire	Cable	NPN	NO+NC	
		PNP	NO+NC	
	Plug	NPN	NO+NC	
		PNP	NO+NC	

DC application

M12	M12	M12	M12	M12
6 mm	6 mm	8 mm	8 mm	8 mm
Increasesd Quasi-flush	Increasesd Quasi-flush	Extended Non-flush	Extended Non-flush	Extended Non-flush
				
ICB12	ICB12	ICB12	ICB12	ICB12
Short body Nickel-plated brass IP 67	Long body Nickel-plated brass IP 67	Extra short body Nickel-plated brass IP 67	Short body Nickel-plated brass IP 67	Long body Nickel-plated brass IP 67
2 kHz -25° to 70°C (-13° to 158°F) 10 to 36 V DC CE, cULus, cCSAus	2 kHz -25° to 70°C (-13° to 158°F) 10 to 36 V DC CE, cULus, cCSAus	2 kHz -25° to 80°C (-13° to 176°F) 10 to 36 V DC CE, cULus, cCSAus	2 kHz -25° to 70°C (-13° to 158°F) 10 to 36 V DC CE, cULus, cCSAus	2 kHz -25° to 70°C (-13° to 158°F) 10 to 36 V DC CE, cULus, cCSAus

ICB12S30F06NO	ICB12L50F06NO	ICB12S23N08NO	ICB12S30N08NO	ICB12L50N08NO
ICB12S30F06NC	ICB12L50F06NC	ICB12S23N08NC	ICB12S30N08NC	ICB12L50N08NC
ICB12S30F06PO	ICB12L50F06PO	ICB12S23N08PO	ICB12S30N08PO	ICB12L50N08PO
ICB12S30F06PC	ICB12L50F06PC	ICB12S23N08PC	ICB12S30N08PC	ICB12L50N08PC
ICB12S30F06NOM1	ICB12L50F06NOM1		ICB12S30N08NOM1	ICB12L50N08NOM1
ICB12S30F06NCM1	ICB12L50F06NCM1		ICB12S30N08NCM1	ICB12L50N08NCM1
ICB12S30F06POM1	ICB12L50F06POM1		ICB12S30N08POM1	ICB12L50N08POM1
ICB12S30F06PCM1	ICB12L50F06PCM1		ICB12S30N08PCM1	ICB12L50N08PCM1

Inductive sensors

Selection guide

DC application

Diameter	M12	M12	M12
Sensing distance (S_n)	8 mm	8 mm	10 mm
Range	Extended	Extended	Increased
Mounting	Non-flush	Non-flush	Non-flush



Family	ICS12	IA12	ICB12
Housing	Long body	Short body	Short body
Material	Stainless steel	Nickel-plated brass	Nickel-plated brass
Degree of protection	IP 67, IP68, IP69K	IP 67	IP 67
Operating frequency	2 kHz	800 Hz	2 kHz
Operating temperature	-40° to 80°C (-40° to 176°F)	-25° to 70°C (-13° to 158°F)	-25° to 70°C (-13° to 158°F)
Rated operating voltage	10 to 36 V DC	10 to 40 V DC	10 to 36 V DC
Approvals/Marks	CE, cULus, ECOLAB, cCSAus	CE, UL, CSA	CE, cULus, cCSAus

References

2-wire	Cable	NO	IA12DSN08DO
		NC	IA12DSN08DC
	Plug	NO	IA12ASN08DOM1
		NC	IA12ASN08DCM1
3-wire	Cable	NPN	ICB12S30N10NO
		NC	ICB12S30N10NC
		NPN	ICB12S30N10PO
		NC	ICB12S30N10PC
	Plug	NPN	ICS12LN08NOM1-FB
		NC	ICS12LN08NCM1-FB
		NPN	ICS12LN08POM1-FB
		NC	ICS12LN08PCM1-FB
4-wire	Cable	NPN	NO+NC
		PNP	NO+NC
	Plug	NPN	NO+NC
		PNP	NO+NC

DC application

M12	M18	M18	M18	M18
10 mm	5 mm	5 mm	5 mm	5 mm
Increasesd	Standard	Standard	Standard	Standard
Non-flush	Flush	Flush	Flush	Flush
				
ICB12	ICB18	ICB18	ICS18	EI18
Long body	Short body	Long body	Long body	Short body
Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Stainless steel	Thermoplastic polyester
IP 67	IP 67	IP 67	IP 67, IP68, IP69K	IP 67
2 kHz	1.5 kHz	1.5 kHz	1.5 kHz	500 Hz
-25° to 70°C (-13° to 158°F)	-25° to 70°C (-13° to 158°F)	-25° to 70°C (-13° to 158°F)	-40° to 80°C (-40° to 176°F)	-25° to 70°C (-13° to 158°F)
10 to 36 V DC	10 to 40 V DC			
CE, cULus, cCSAus	CE, cULus, cCSAus	CE, cULus, cCSAus	CE, cULus, ECOLAB, cCSAus	CE, UL, CSA

ICB12L50N10NO	ICB18S30F05NO	ICB18L50F05NO	
ICB12L50N10NC	ICB18S30F05NC	ICB18L50F05NC	
ICB12L50N10PO	ICB18S30F05PO	ICB18L50F05PO	EI1805PPOPS
ICB12L50N10PC	ICB18S30F05PC	ICB18L50F05PC	
ICB12L50N10NOM1	ICB18S30F05NOM1	ICB18L50F05NOM1	ICS18LF05NOM1-FB
ICB12L50N10NCM1	ICB18S30F05NCM1	ICB18L50F05NCM1	ICS18LF05NCM1-FB
ICB12L50N10POM1	ICB18S30F05POM1	ICB18L50F05POM1	ICS18LF05POM1-FB
ICB12L50N10PCM1	ICB18S30F05PCM1	ICB18L50F05PCM1	ICS18LF05PCM1-FB

Inductive sensors

Selection guide

DC application

Diameter	M18	M18	M18
Sensing distance (S_n)	5 mm	5 mm	5 mm
Range	Standard	Standard	Standard
Mounting	Flush	Flush	Flush



Family	EI18	EI18	EI18
Housing	Long body	Short body	Long body
Material	Thermoplastic polyester	Stainless steel	Stainless steel
Degree of protection	IP 67	IP 67	IP 67
Operating frequency	500 Hz	500 Hz	500 Hz
Operating temperature	-25° to 70°C (-13° to 158°F)	-25° to 70°C (-13° to 158°F)	-25° to 70°C (-13° to 158°F)
Rated operating voltage	10 to 40 V DC	10 to 40 V DC	10 to 40 V DC
Approvals/Marks	CE, UL, CSA	CE, UL, CSA	CE, UL, CSA

References

2-wire	Cable	NO		
		NC		
3-wire	Plug	NO		
		NC		
4-wire	Cable	NPN	NO EI1805NPOPL	EI1805NPOSS EI1805NPOS
		NC		EI1805NPCSS EI1805NPCSL
	Plug	PNP	NO EI1805PPOPL	EI1805PPOSS EI1805PPPOS
		NC		EI1805PPCSS EI1805PPCSL
	Cable	NPN	NO EI1805NPOSS-1	EI1805NPOS-1
		NC		EI1805NPCSS-1
	Plug	PNP	NO EI1805PPOSS-1	EI1805PPPOS-1
		NC		EI1805PPCSS-1 EI1805PPCSL-1
	Cable	NPN	NO+NC	
		PNP	NO+NC	
	Plug	NPN	NO+NC	
		PNP	NO+NC	

DC application

M18	M18	M18	M18	M18
8 mm	8 mm	8 mm	8 mm	8 mm
Standard	Standard	Standard	Standard	Standard
Non-flush	Non-flush	Non-flush	Non-flush	Non-flush
				
ICB18	ICB18	ICS18	EI18	EI18
Short body	Long body	Long body	Short body	Long body
Nickel-plated brass	Nickel-plated brass	Stainless steel	Thermoplastic polyester	Thermoplastic polyester
IP 67	IP 67	IP 67	IP 67	IP 67
1.5 kHz	1.5 kHz	1.5 kHz	400 Hz	400 Hz
-25° to 70°C (-13° to 158°F)	-25° to 70°C (-13° to 158°F)			
10 to 36 V DC	10 to 36 V DC	10 to 36 V DC	10 to 40 V DC	10 to 40 V DC
CE, cULus, cCSAus	CE, cULus, cCSAus	CE, cULus, ECOLAB, cCSAus	CE, UL, CSA	CE, UL, CSA

ICB18S30N08NO	ICB18L50N08NO		EI1808NPOPS	EI1808NPOPL
ICB18S30N08NC	ICB18L50N08NC			
ICB18S30N08PO	ICB18L50N08PO		EI1808PPOPS	EI1808PPOPL
ICB18S30N08PC	ICB18L50N08PC			EI1808PPCPL
ICB18S30N08NOM1	ICB18L50N08NOM1	ICS18LN08NOM1-FB		
ICB18S30N08NCM1	ICB18L50N08NCM1	ICS18LN08NCM1-FB		
ICB18S30N08POM1	ICB18L50N08POM1	ICS18LN08POM1-FB	EI1808PPOPS-1	EI1808PPOPL-1
ICB18S30N08PCM1	ICB18L50N08PCM1	ICS18LN08PCM1-FB		EI1808PPCPL-1

Inductive sensors

Selection guide

DC application

Diameter	M18	M18	M18
Sensing distance (S_n)	8 mm	8 mm	8 mm
Range	Standard	Standard	Extended
Mounting	Non-flush	Non-flush	Flush



Family	EI18	EI18	ICB18
Housing	Short body	Long body	Short body
Material	Stainless steel	Stainless steel	Nickel-plated brass
Degree of protection	IP 67	IP 67	IP 67
Operating frequency	400 Hz	400 Hz	1.5 kHz
Operating temperature	-25° to 70°C (-13° to 158°F)	-25° to 70°C (-13° to 158°F)	-25° to 70°C (-13° to 158°F)
Rated operating voltage	10 to 40 V DC	10 to 40 V DC	10 to 36 V DC
Approvals/Marks	CE, UL, CSA	CE, UL, CSA	CE, cULus, cCSAus

References

2-wire	Cable	NO		
		NC		
	Plug	NO		
		NC		
3-wire	Cable	NPN	EI1808NPOSS	EI1808NPOS
		NC	EI1808NPCSS	EI1808S30F08NC
		PNP	EI1808PPOSS	EI1808PPS
		NC	EI1808PPCSS	EI1808PPCS
	Plug	NPN	EI1808NPOSS-1	EI1808NPOS-1
		NC	EI1808NPCSS-1	EI1808S30F08NCM1
		PNP	EI1808PPOSS-1	EI1808PPS-1
		NC	EI1808PPCSS-1	EI1808PPCS-1
4-wire	Cable	NPN	NO+NC	
		PNP	NO+NC	
	Plug	NPN	NO+NC	
		PNP	NO+NC	

DC application

M18	M18	M18	M18	M18
8 mm	8 mm	8 mm	12 mm	12 mm
Extended Flush	Extended Flush	Extended Flush	Increasesd Quasi-flush	Increasesd Quasi-flush



ICB18	ICS18	IA18	ICB18	ICB18
Long body	Long body	Short body	Short body	Long body
Nickel-plated brass	Stainless steel	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
IP 67	IP 67, IP68, IP69K	IP 67	IP 67	IP 67
1.5 kHz	1.5 kHz	500 Hz	1.5 kHz	1.5 kHz
-25° to 70°C (-13° to 158°F)	-40° to 80°C (-40° to 176°F)	-25° to 70°C (-13° to 158°F)	-25° to 70°C (-13° to 158°F)	-25° to 70°C (-13° to 158°F)
10 to 36 V DC	10 to 36 V DC	10 to 40 V DC	10 to 36 V DC	10 to 36 V DC
CE, cULus, cCSAus	CE, cULus, ECOLAB, cCSAus	CE, UL, CSA	CE, cULus, cCSAus	CE, cULus, cCSAus

IA18DSF08DO

IA18DSF08DC

IA18ASF08DOM1

IA18ASF08DCM1

ICB18L50F08NO

ICB18S30F12NO

ICB18L50F12NO

ICB18L50F08NC

ICB18S30F12NC

ICB18L50F12NC

ICB18L50F08PO

ICB18S30F12PO

ICB18L50F12PO

ICB18L50F08PC

ICB18S30F12PC

ICB18L50F12PC

ICB18L50F08NOM1 **ICS18LF08NOM1-FB**

ICB18S30F12NOM1 **ICB18L50F12NOM1**

ICB18L50F08NCM1 **ICS18LF08NCM1-FB**

ICB18S30F12NCM1 **ICB18L50F12NCM1**

ICB18L50F08POM1 **ICS18LF08POM1-FB**

ICB18S30F12POM1 **ICB18L50F12POM1**

ICB18L50F08PCM1 **ICS18LF08PCM1-FB**

ICB18S30F12PCM1 **ICB18L50F12PCM1**

Inductive sensors

Selection guide

DC application

Diameter	M18	M18	M18
Sensing distance (S_n)	12 mm	14 mm	14 mm
Range	Extended	Extended	Extended
Mounting	Non-flush	Non-flush	Non-flush



Family	ICS18	ICB18	ICB18
Housing	Long body	Short body	Long body
Material	Stainless steel	Nickel-plated brass	Nickel-plated brass
Degree of protection	IP 67, IP68, IP69K	IP 67	IP 67
Operating frequency	1.5 kHz	1.5 kHz	1.5 kHz
Operating temperature	-40° to 80°C (-40° to 176°F)	-25° to 70°C (-13° to 158°F)	-25° to 70°C (-13° to 158°F)
Rated operating voltage	10 to 36 V DC	10 to 36 V DC	10 to 36 V DC
Approvals/Marks	CE, cULus, ECOLAB, cCSAus	CE, cULus, cCSAus	CE, cULus, cCSAus

References

2-wire	Cable	NO		
		NC		
	Plug	NO		
		NC		
3-wire	Cable	NPN	ICB18S30N14NO	ICB18L50N14NO
		NC	ICB18S30N14NC	ICB18L50N14NC
		PNP	ICB18S30N14PO	ICB18L50N14PO
		NC	ICB18S30N14PC	ICB18L50N14PC
	Plug	NPN	ICS18LN12NOM1-FB	ICB18S30N14NOM1
		NC	ICS18LN12NCM1-FB	ICB18S30N14NCM1
		PNP	ICS18LN12POM1-FB	ICB18S30N14POM1
		NC	ICS18LN12PCM1-FB	ICB18S30N14PCM1
4-wire	Cable	NPN	NO+NC	
		PNP	NO+NC	
	Plug	NPN	NO+NC	
		PNP	NO+NC	

DC application

M18	M18	M18	M30	M30
14 mm	20 mm	20 mm	10 mm	10 mm
Extended	Increased	Increased	Standard	Standard
Non-flush	Non-flush	Non-flush	Flush	Flush



IA18	ICB18	ICB18	ICB30	ICB30
Short body	Short body	Long body	Short body	Long body
Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
IP 67	IP 67	IP 67	IP 67	IP 67
400 Hz	1.5 kHz	1.5 kHz	1 kHz	1 kHz
-25° to 70°C (-13° to 158°F) (*)	-25° to 70°C (-13° to 158°F) (*)			
10 to 40 V DC	10 to 36 V DC	10 to 36 V DC	10 to 36 V DC	10 to 36 V DC
CE, UL, CSA	CE, cULus, cCSAus	CE, cULus, cCSAus	CE, cULus, cCSAus	CE, cULus, cCSAus

IA18DSN14DO

IA18DSN14DC

IA18ASN14DOM1

IA18ASN14DCM1

ICB18S30N20NO	ICB18L50N20NO	ICB30S30F10NO	ICB30L50F10NO
ICB18S30N20NC	ICB18L50N20NC	ICB30S30F10NC	ICB30L50F10NC
ICB18S30N20PO	ICB18L50N20PO	ICB30S30F10PO	ICB30L50F10PO
ICB18S30N20PC	ICB18L50N20PC	ICB30S30F10PC	ICB30L50F10PC
ICB18S30N20NOM1	ICB18L50N20NOM1	ICB30S30F10NOM1	ICB30L50F10NOM1
ICB18S30N20NCM1	ICB18L50N20NCM1	ICB30S30F10NCM1	ICB30L50F10NCM1
ICB18S30N20POM1	ICB18L50N20POM1	ICB30S30F10POM1	ICB30L50F10POM1
ICB18S30N20PCM1	ICB18L50N20PCM1	ICB30S30F10PCM1	ICB30L50F10PCM1

(*) Operating temperature:
Plug version -40° to +70°C (-40° to +158°F)

Inductive sensors

Selection guide

DC application

Diameter	M30	M30	M30
Sensing distance (S_n)	10 mm	10 mm	10 mm
Range	Standard	Standard	Standard
Mounting	Flush	Flush	Flush



Family	ICS30	ICS30	EI30
Housing	Short body	Long body	Long body
Material	Stainless steel	Stainless steel	Thermoplastic polyester
Degree of protection	IP 67, IP68, IP69K	IP 67, IP68, IP69K	IP 67
Operating frequency	1 kHz	1 kHz	300 Hz
Operating temperature	-40° to 85°C (-40° to 185°F)	-40° to 85°C (-40° to 185°F)	-25° to 70°C (-13° to 158°F)
Rated operating voltage	10 to 36 V DC	10 to 36 V DC	10 to 40 V DC
Approvals/Marks	CE, cULus, ECOLAB, cCSAus	CE, cULus, ECOLAB, cCSAus	CE, UL, CSA

References

2-wire	Cable	NO	
		NC	
	Plug	NO	
		NC	
3-wire	Cable	NO	EI3010NPOPL
		NC	
	Plug	NO	EI3010PPPOPL
		NC	EI3010PPCPPL
4-wire	Cable	NO	ICS30SF10NOM1-FB
		NC	ICS30LF10NOM1-FB
	Plug	NO	ICS30SF10POM1-FB
		NC	ICS30LF10POM1-FB
	Cable	NO+NC	ICS30SF10PCM1-FB
		PNP	ICS30LF10PCM1-FB
	Plug	NO+NC	
		PNP	

DC application

M30	M30	M30	M30	M30
10 mm	10 mm	15 mm	15 mm	15 mm
Standard	Standard	Standard	Standard	Standard
Flush	Flush	Non-flush	Non-flush	Non-flush
				
EI30	EI30	ICB30	ICB30	ICS30
Short body	Long body	Short body	Long body	Short body
Stainless steel	Stainless steel	Nickel-plated brass	Nickel-plated brass	Stainless steel
IP 67	IP 67	IP 67	IP 67	IP 67, IP68, IP69K
300 Hz	300 Hz	1 kHz	1 kHz	1 kHz
-25° to 70°C (-13° to 158°F)	-25° to 70°C (-13° to 158°F)	-25° to 70°C (-13° to 158°F) (*)	-25° to 70°C (-13° to 158°F) (*)	-40° to 85°C (-40° to 185°F)
10 to 40 V DC	10 to 40 V DC	10 to 36 V DC	10 to 36 V DC	10 to 36 V DC
CE, UL, CSA	CE, UL, CSA	CE, cULus, cCSAus	CE, cULus, cCSAus	CE, cULus, ECOLAB, cCSAus

EI3010NPOSS

EI3010NPOS

ICB30S30N15NO

ICB30L50N15NO

EI3010NPCSS

ICB30S30N15NC

ICB30L50N15NC

EI3010PPOSS

EI3010PPPOS

ICB30S30N15PO

ICB30L50N15PO

EI3010PPCSS

EI3010PPCSL

ICB30S30N15PC

ICB30L50N15PC

ICB30S30N15NOM1

ICB30L50N15NOM1

ICS30SN15NOM1-FB

ICB30S30N15NCM1

ICB30L50N15NCM1

ICS30SN15NCM1-FB

EI3010PPOSS-1

EI3010PPPOS-1

ICB30S30N15POM1

ICB30L50N15POM1

ICS30SN15POM1-FB

ICB30S30N15PCM1

ICB30L50N15PCM1

ICS30SN15PCM1-FB

(*) Operating temperature:
Plug version -40° to +70°C (-40° to +158°F)

Inductive sensors

Selection guide

DC application

Diameter	M30	M30	M30
Sensing distance (S_n)	15 mm	15 mm	15 mm
Range	Standard	Standard	Standard
Mounting	Non-flush	Non-flush	Non-flush



Family	ICS30	EI30	EI30
Housing	Long body	Short/Long body	Short body
Material	Stainless steel	Thermoplastic polyester	Stainless steel
Degree of protection	IP 67, IP68, IP69K	IP 67	IP 67
Operating frequency	1 kHz	100 Hz	100 Hz
Operating temperature	-40° to 85°C (-40° to 185°F)	-25° to 70°C (-13° to 158°F)	-25° to 70°C (-13° to 158°F)
Rated operating voltage	10 to 36 V DC	10 to 40 V DC	10 to 40 V DC
Approvals/Marks	CE, cULus, ECOLAB, cCSAus	CE, UL, CSA	CE, UL, CSA

References

2-wire	Cable	NO		
		NC		
	Plug	NO		
		NC		
3-wire	Cable	NPN	NO	EI3015NPOPS (short)
			NC	EI3015NPCSS
		PNP	NO	EI3015PPOPL (long)
			NC	EI3015PP POSS
4-wire	Cable	NPN	NO	ICS30LN15NOM1-FB
			NC	ICS30LN15NCM1-FB
		PNP	NO	ICS30LN15POM1-FB
			NC	ICS30LN15PCM1-FB
4-wire	Plug	NPN	NO+NC	
		PNP	NO+NC	
	Plug	NPN	NO+NC	
		PNP	NO+NC	

DC application

M30	M30	M30	M30	M30
15 mm	15 mm	15 mm	15 mm	15 mm
Standard	Extended	Extended	Extended	Extended
Non-flush	Flush	Flush	Flush	Flush
				
EI30	ICB30	ICB30	ICS30	ICS30
Long body	Short body	Long body	Short body	Long body
Stainless steel	Nickel-plated brass	Nickel-plated brass	Stainless steel	Stainless steel
IP 67	IP 67	IP 67	IP 67, IP68, IP69K	IP 67, IP68, IP69K
100 Hz	1 kHz	1 kHz	1 kHz	1 kHz
-25° to 70°C (-13° to 158°F)	-25° to 70°C (-13° to 158°F) (*)	-25° to 70°C (-13° to 158°F) (*)	-40° to 85°C (-40° to 185°F)	-40° to 85°C (-40° to 185°F)
10 to 40 V DC	10 to 36 V DC	10 to 36 V DC	10 to 36 V DC	10 to 36 V DC
CE, UL, CSA	CE, cULus, cCSAus	CE, cULus, cCSAus	CE, cULus, ECOLAB, cCSAus	CE, cULus, ECOLAB, cCSAus

EI3015NPOS

ICB30S30F15NO

ICB30L50F15NO

EI3015NPCSL

ICB30S30F15NC

ICB30L50F15NC

EI3015PPOS

ICB30S30F15PO

ICB30L50F15PO

ICB30S30F15PC

ICB30L50F15PC

ICB30S30F15NOM1

ICB30L50F15NOM1

ICS30SF15NOM1-FB

ICS30LF15NOM1-FB

ICB30S30F15NCM1

ICB30L50F15NCM1

ICS30SF15NCM1-FB

ICS30LF15NCM1-FB

EI3015PPSSL-1

ICB30S30F15POM1

ICB30L50F15POM1

ICS30SF15POM1-FB

ICS30LF15POM1-FB

ICB30S30F15PCM1

ICB30L50F15PCM1

ICS30SF15PCM1-FB

ICS30LF15PCM1-FB

(*) Operating temperature:
Plug version -40° to +70°C (-40° to +158°F)

Inductive sensors

Selection guide

DC application

Diameter	M30	M30	M30
Sensing distance (S_n)	15 mm	22 mm	22 mm
Range	Extended	Extended	Extended
Mounting	Flush	Non-flush	Non-flush



Family	IA30	ICB30	ICB30
Housing	Short body	Short body	Long body
Material	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
Degree of protection	IP 67	IP 67	IP 67
Operating frequency	400 Hz	1 kHz	1 kHz
Operating temperature	-25° to 70°C (-13° to 158°F)	-25° to 70°C (-13° to 158°F) (*)	-25° to 70°C (-13° to 158°F) (*)
Rated operating voltage	10 to 40 V DC	10 to 36 V DC	10 to 36 V DC
Approvals/Marks	CE, UL, CSA	CE, cULus, cCSAus	CE, cULus, cCSAus

References

2-wire	Cable	NO	IA30DSF15DO	
		NC	IA30DSF15DC	
	Plug	NO	IA30ASF15DOM1	
		NC	IA30ASF15DCM1	
3-wire	Cable	NPN	NO	ICB30S30N22NO
			NC	ICB30L50N22NO
		PNP	NO	ICB30S30N22NC
			NC	ICB30L50N22NC
	Plug	NPN	NO	ICB30S30N22PO
			NC	ICB30L50N22PO
		PNP	NO	ICB30S30N22PC
			NC	ICB30L50N22PC
4-wire	Cable	NPN	NO+NC	ICB30S30N22NOM1
		PNP	NO+NC	ICB30L50N22NOM1
	Plug	NPN	NO+NC	ICB30S30N22NCM1
		PNP	NO+NC	ICB30L50N22NCM1

(*) Operating temperature:
Cable version -25° to +70°C (-13° to +158°F)
Plug version -40° to +70°C (-40° to +158°F)

DC application

M30	M30	M30	M30	M30
22 mm	22 mm	22 mm	22 mm	22 mm
Extended	Extended	Extended	Increased	Increased
Non-flush	Non-flush	Non-flush	Quasi-flush	Quasi-flush



ICS30	ICS30	IA30	ICB30	ICB30
Short body	Long body	Short body	Short body	Long body
Stainless steel	Stainless steel	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
IP 67, IP68, IP69K	IP 67, IP68, IP69K	IP 67	IP 67	IP 67
1 kHz	1 kHz	200 Hz	100 Hz	100 Hz
-40° to 85°C (-40° to 185°F)	-40° to 85°C (-40° to 185°F)	-25° to 70°C (-13° to 158°F)	-25° to 70°C (-13° to 158°F)	-25° to 70°C (-13° to 158°F)
10 to 36 V DC	10 to 36 V DC	10 to 40 V DC	10 to 36 V DC	10 to 36 V DC
CE, cULus, ECOLAB, cCSAus	CE, cULus, ECOLAB, cCSAus	CE, UL, CSA	CE, cULus, cCSAus	CE, cULus, cCSAus

IA30DSN22DO

IA30DSN22DC

IA30ASN22DOM1

IA30ASN22DCM1

ICB30S35F22NO **ICB30L50F22NO**

ICB30S35F22NC **ICB30L50F22NC**

ICB30S35F22PO **ICB30L50F22PO**

ICB30S35F22PC **ICB30L50F22PC**

ICS30SN22NOM1-FB **ICS30LN22NOM1-FB**

ICB30S35F22NOM1 **ICB30L50F22NOM1**

ICS30SN22NCM1-FB **ICS30LN22NCM1-FB**

ICB30S35F22NCM1 **ICB30L50F22NCM1**

ICS30SN22POM1-FB **ICS30LN22POM1-FB**

ICB30S35F22POM1 **ICB30L50F22POM1**

ICS30SN22PCM1-FB **ICS30LN22PCM1-FB**

ICB30S35F22PCM1 **ICB30L50F22PCM1**

Inductive sensors

Selection guide

DC application

	M30	M30
Diameter		
Sensing distance (S_n)	40 mm	40 mm
Range	Increased	Increased
Mounting	Non-flush	Non-flush



Family	ICB30	ICB30
Housing	Short body	Long body
Material	Nickel-plated brass	Nickel-plated brass
Degree of protection	IP 67	IP 67
Operating frequency	100 Hz	100 Hz
Operating temperature	-25° to 70°C (-13° to 158°F)	-25° to 70°C (-13° to 158°F)
Rated operating voltage	10 to 36 V DC	10 to 36 V DC
Approvals/Marks	CE, cULus, cCSAus	CE, cULus, cCSAus

References

2-wire	Cable	NO		
		NC		
	Plug	NO		
		NC		
3-wire	Cable	NPN	ICB30S35N40NO	ICB30L50N40NO
		NC	ICB30S35N40NC	ICB30L50N40NC
		NPN	ICB30S35N40PO	ICB30L50N40PO
		NC	ICB30S35N40PC	ICB30L50N40PC
	Plug	NPN	ICB30S35N40NOM1	ICB30L50N40NOM1
		NC	ICB30S35N40NCM1	ICB30L50N40NCM1
		NPN	ICB30S35N40POM1	ICB30L50N40POM1
		NC	ICB30S35N40PCM1	ICB30L50N40PCM1
4-wire	Cable	NPN	NO+NC	
		PNP	NO+NC	
	Plug	NPN	NO+NC	
		PNP	NO+NC	

AC application

Diameter	M12	M18	M18	M18
Sensing distance (S_n)	2 mm (flush) 4 mm (non-flush)	5 mm (flush) 8 mm (non-flush)	5 mm (flush) 8 mm (non-flush)	5 mm (flush) 8 mm (non-flush)
Range	Standard	Standard	Standard	Standard



Family	EI12	EI18	EI18	EI18
Housing	Long body	Short body	Long body	Short body
Material	Stainless steel	Thermoplastic polyester	Thermoplastic polyester	Stainless steel
Degree of protection	IP 67	IP 67	IP 67	IP 67
Operating frequency	25 Hz	25 Hz	25 Hz	25 Hz
Operating temperature	-25° to 70°C (-13° to 158°F)			
Rated operating voltage	20 to 265 V AC	20 to 250 V AC	20 to 250 V AC	20 to 265 V AC
Approvals/Marks	CE, UL, CSA	CE, UL, CSA	CE, UL, CSA	CE, UL, CSA

References				
Mounting		Flush	Flush	Flush
2-wire	Cable	NO EI1202TBOSL	EI1805TBOPS	EI1805TBOPL
	SCR	NC EI1202TBCSL		EI1805TBCSS
	Plug	NO EI1202TBOSL-6		EI1805TBOSS-6
		NC		
Mounting		Non-flush	Non-flush	Non-flush
2-wire	Cable	NO EI1204TBOSL		EI1808TBOPL
	SCR	NC EI1204TBCSL		EI1808TBCPL
	Plug	NO EI1204TBOSL-6		EI1808TBOSS-6
		NC		EI1808TBCPL-6

Inductive sensors

Selection guide

AC application

Diameter	M18	M30	M30	M30
Sensing distance (S_n)	5 mm (flush) 8 mm (non-flush)	10 mm (flush) 15 mm (non-flush)	10 mm (flush) 15 mm (non-flush)	10 mm (flush) 15 mm (non-flush)
Range	Standard	Standard	Standard	Standard
				
Family	EI18	EI30	EI30	EI30
Housing	Long body	Long body	Short body	Long body
Material	Stainless steel	Thermoplastic polyester	Stainless steel	Stainless steel
Degree of protection	IP 67	IP 67	IP 67	IP 67
Operating frequency	25 Hz	25 Hz	25 Hz	25 Hz
Operating temperature	-25° to 70°C (-13° to 158°F)	-25° to 70°C (-13° to 158°F)	-25° to 70°C (-13° to 158°F)	-25° to 70°C (-13° to 158°F)
Rated operating voltage	20 to 265 V AC	20 to 265 V AC	20 to 265 V AC	20 to 265 V AC
Approvals/Marks	CE, UL, CSA	CE, UL, CSA	CE, UL, CSA	CE, UL, CSA
References				
Mounting		Flush	Flush	Flush
Cable	NO	EI1805TBOSL	EI3010TBOPL	EI3010TBOSS
2-wire	NC	EI1805TBCSL		EI3010TBCSSL
SCR	NO	EI1805TBOSL-6		EI3010TBOSL-6
Plug	NC			
Mounting		Non-flush	Non-flush	Non-flush
Cable	NO	EI1808TBOSL	EI3015TBOPL	EI3015TBOSS
2-wire	NC	EI1808TBCSL		EI3015TBCSSL
SCR	NO	EI1808TBOSL-6		EI3015TBOSL-6
Plug	NC	EI1808TBCSL-6		

Metal face

Diameter	M8	M12	M18	M30	
Sensing distance (S_n)	1 mm (flush) 2 mm (non-flush)	2 mm (flush) 4 mm (non-flush)	5 mm (flush) 8 mm (non-flush)	10 mm (flush) 15 mm (non-flush)	
Range	Standard	Standard	Standard	Standard	
					
Family	IA08	IA12	IA18	IA30	
Housing	Short body	Short body	Short body	Short body	
Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
Degree of protection	IP 67	IP 67	IP 67	IP 67	
Operating frequency	500 Hz	1 kHz (N) 2 kHz (F)	500 Hz (N plug) 1 kHz (N cable and F plug) 2 kHz (F cable)	1 kHz (N cable and N plug) 2 kHz (F cable and F, plug)	
Operating temperature	-25° to 70°C (-13° to 158°F)	-25° to 70°C (-13° to 158°F)	-25° to 70°C (-13° to 158°F)	-25° to 70°C (-13° to 158°F)	
Rated operating voltage	10 to 30 V DC	10 to 30 V DC	10 to 30 V DC	10 to 30 V DC	
Approvals/Marks	CE	CE	CE	CE	
References					
Mounting	Flush	Flush	Flush	Flush	
3-wire	NPN NO	IA08FSF01NO	IA12FSF02NO	IA18FSF05NO	IA30FSF10NO
	NPN NC	IA08FSF01NC	IA12FSF02NC	IA18FSF05NC	IA30FSF10NC
	PNP NO	IA08FSF01PO	IA12FSF02PO	IA18FSF05PO	IA30FSF10PO
	PNP NC	IA08FSF01PC	IA12FSF02PC	IA18FSF05PC	IA30FSF10PC
3-wire	Plug NPN NO	IA08FSF01NOM5	IA12FSF02NOM1	IA18FSF05NOM1	IA30FSF10NOM1
	Plug NPN NC	IA08FSF01NCM5	IA12FSF02NCM1	IA18FSF05NCM1	IA30FSF10NCM1
	Plug PNP NO	IA08FSF01POM5	IA12FSF02POM1	IA18FSF05POM1	IA30FSF10POM1
	Plug PNP NC	IA08FSF01PCM5	IA12FSF02PCM1	IA18FSF05PCM1	IA30FSF10PCM1
Mounting	Non- flush	Non- flush	Non- flush	Non- flush	
3-wire	Cable NPN NO	IA08FSN02NO	IA12FSN04NO	IA18FSN08NO	IA30FSN15NO
	Cable NPN NC	IA08FSN02NC	IA12FSN04NC	IA18FSN08NC	IA30FSN15NC
	Cable PNP NO	IA08FSN02PO	IA12FSN04PO	IA18FSN08PO	IA30FSN15PO
	Cable PNP NC	IA08FSN02PC	IA12FSN04PC	IA18FSN08PC	IA30FSN15PC
3-wire	Plug NPN NO	IA08FSN02NOM5	IA12FSN04NOM1	IA18FSN08NOM1	IA30FSN15NOM1
	Plug NPN NC	IA08FSN02NCM5	IA12FSN04NCM1	IA18FSN08NCM1	IA30FSN15NCM1
	Plug PNP NO	IA08FSN02POM5	IA12FSN04POM1	IA18FSN08POM1	IA30FSN15POM1
	Plug PNP NC	IA08FSN02PCM5	IA12FSN04PCM1	IA18FSN08PCM1	IA30FSN15PCM1

N = non-flush

F = flush

Inductive sensors

Selection guide

Metal face

Diameter	M8	M12	M18	M30	
Sensing distance (S_n)	1 mm (flush) 2 mm (non-flush)	2 mm (flush) 4 mm (non-flush)	5 mm (flush) 8 mm (non-flush)	10 mm (flush) 15 mm (non-flush)	
Range	Standard	Standard	Standard	Standard	
					
Family	IA08	IA12	IA18	IA30	
Housing	Long body	Long body	Long body	Long body	
Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
Degree of protection	IP 67	IP 67	IP 67	IP 67	
Operating frequency	500 Hz	1 kHz (N) 2 kHz (F)	500 Hz (N plug) 1 kHz (N cable and F plug) 2 kHz (F cable)	150 Hz (N cable) 300 Hz (F cable) 1 kHz (N plug) 2 kHz (F, plug)	
Operating temperature	-25° to 70°C (-13° to 158°F)	-25° to 70°C (-13° to 158°F)	-25° to 70°C (-13° to 158°F)	-25° to 70°C (-13° to 158°F)	
Rated operating voltage	10 to 30 V DC	10 to 30 V DC	10 to 30 V DC	10 to 30 V DC	
Approvals/Marks	CE	CE	CE	CE	
References					
Mounting	Flush	Flush	Flush	Flush	
Cable	NPN NO	IA08FLF01NO	IA12FLF02NO	IA18FLF05NO	IA30FLF10NO
	NPN NC	IA08FLF01NC	IA12FLF02NC	IA18FLF05NC	IA30FLF10NC
	PNP NO	IA08FLF01PO	IA12FLF02PO	IA18FLF05PO	IA30FLF10PO
	PNP NC	IA08FLF01PC	IA12FLF02PC	IA18FLF05PC	IA30FLF10PC
3-wire	NPN NO	IA08FLF01NOM5	IA12FLF02NOM1	IA18FLF05NOM1	IA30FLF10NOM1
	NPN NC	IA08FLF01NCM5	IA12FLF02NCM1	IA18FLF05NCM1	IA30FLF10NCM1
	PNP NO	IA08FLF01POM5	IA12FLF02POM1	IA18FLF05POM1	IA30FLF10POM1
	PNP NC	IA08FLF01PCM5	IA12FLF02PCM1	IA18FLF05PCM1	IA30FLF10PCM1
Mounting	Non- flush	Non- flush	Non- flush	Non- flush	
Cable	NPN NO	IA08FLN02NO	IA12FLN04NO	IA18FLN08NO	IA30FLN15NO
	NPN NC	IA08FLN02NC	IA12FLN04NC	IA18FLN08NC	IA30FLN15NC
	PNP NO	IA08FLN02PO	IA12FLN04PO	IA18FLN08PO	IA30FLN15PO
	PNP NC	IA08FLN02PC	IA12FLN04PC	IA18FLN08PC	IA30FLN15PC
3-wire	NPN NO	IA08FLN02NOM5	IA12FLN04NOM1	IA18FLN08NOM1	IA30FLN15NOM1
	NPN NC	IA08FLN02NCM5	IA12FLN04NCM1	IA18FLN08NCM1	IA30FLN15NCM1
	PNP NO	IA08FLN02POM5	IA12FLN04POM1	IA18FLN08POM1	IA30FLN15POM1
	PNP NC	IA08FLN02PCM5	IA12FLN04PCM1	IA18FLN08PCM1	IA30FLN15PCM1

N = non-flush
F = flush

NAMUR

Diameter	M8 - Ø 6.5	M12	M12	M12
Sensing distance (S_n)	1 mm (flush) 2 mm (non-flush)	2 mm (flush) 4 mm (non-flush)	2 mm (flush) 4 mm (non-flush)	2 mm (flush) 4 mm (non-flush)
Range	Standard	Standard	Standard	Standard



Family	EI08 - EI06	IA12	IA12	IA12
Housing	Short body	Short body	Long body	Short body
Material	Stainless steel	Thermoplastic polyester	Thermoplastic polyester	Stainless steel
Degree of protection	IP 67	IP 67	IP 67	IP 67
Operating frequency	2 kHz (flush) 1.5 kHz (non-flush)	1.4 kHz (flush) 1.2 kHz (non-flush)	1.4 kHz (flush) 1.2 kHz (non-flush)	1.4 kHz (flush) 1.2 kHz (non-flush)
Operating temperature	-25° to 70°C (-13° to 158°F)	-25° to 70°C (-13° to 158°F)	-25° to 70°C (-13° to 158°F)	-25° to 70°C (-13° to 158°F)
Rated operating voltage	7 to 9 V DC	7 to 9 V DC	7 to 9 V DC	7 to 9 V DC
Approvals/Marks	CE, UL, CSA	CE, UL, CSA	CE, UL, CSA	CE, UL, CSA

References

Mounting	Flush	Flush	Flush	Flush
Cable	EI08(06)01NACS (*)	IA12CSF02UC	IA12CLF02UC	IA12ESF02UC
Plug		IA12CSF02UCM1	IA12CLF02UCM1	IA12ESF02UCM1
Mounting	Non-flush	Non-flush	Non-flush	Non-flush
Cable	EI0802NACS	IA12CSN04UC	IA12CLN04UC	IA12ESN04UC
Plug		IA12CSN04UCM1	IA12CLN04UCM1	IA12ESN04UCM1

(*) **EI0801NACS = M8**
EI0601NACS = Ø 6.5

Inductive sensors

Selection guide

NAMUR

Diameter	M12	M18	M18	M18
Sensing distance (S_n)	2 mm (flush) 4 mm (non-flush)	5 mm (flush) 8 mm (non-flush)	5 mm (flush) 8 mm (non-flush)	5 mm (flush) 8 mm (non-flush)
Range	Standard	Standard	Standard	Standard
				
Family	IA12	IA18	IA18	IA18
Housing	Long body	Short body	Long body	Short body
Material	Stainless steel	Thermoplastic polyester	Thermoplastic polyester	Stainless steel
Degree of protection	IP 67	IP 67	IP 67	IP 67
Operating frequency	1.4 kHz (flush) 1.2 kHz (non-flush)	500 Hz (flush) 200 Hz (non-flush)	500 Hz (flush) 200 Hz (non-flush)	500 Hz (flush) 200 Hz (non-flush)
Operating temperature	-25° to 70°C (-13° to 158°F)	-25° to 70°C (-13° to 158°F)	-25° to 70°C (-13° to 158°F)	-25° to 70°C (-13° to 158°F)
Rated operating voltage	7 to 9 V DC	7 to 9 V DC	7 to 9 V DC	7 to 9 V DC
Approvals/Marks	CE, UL, CSA	CE, UL, CSA	CE, UL, CSA	CE, UL, CSA
References				
Mounting	Flush	Flush	Flush	Flush
Cable	IA12ELF02UC	IA18CSF05UC	IA18CLF05UC	IA18ESF05UC
Plug	IA12ELF02UCM1	IA18CSF05UCM1	IA18CLF05UCM1	IA18ESF05UCM1
Mounting	Non-flush	Non-flush	Non-flush	Non-flush
Cable	IA12ELN04UC	IA18CSN08UC	IA18CLN08UC	IA18ESN08UC
Plug	IA12ELN04UCM1	IA18CSN08UCM1	IA18CLN08UCM1	IA18ESN08UCM1

NAMUR

M18	M30	M30	M30	M30
5 mm (flush) 8 mm (non-flush)	10 mm (flush) 15 mm (non-flush)	10 mm (flush) 15 mm (non-flush)	10 mm (flush) 15 mm (non-flush)	10 mm (flush) 15 mm (non-flush)
Standard	Standard	Standard	Standard	Standard
				
IA18	IA30	IA30	IA30	IA30
Long body Stainless steel IP 67 500 Hz (flush) 200 Hz (non-flush) -25° to 70°C (-13° to 158°F) 7 to 9 V DC CE, UL, CSA	Short body Thermoplastic polyester IP 67 300 Hz (flush) 100 Hz (non-flush) -25° to 70°C (-13° to 158°F) 7 to 9 V DC CE, UL, CSA	Long body Thermoplastic polyester IP 67 300 Hz (flush) 100 Hz (non-flush) -25° to 70°C (-13° to 158°F) 7 to 9 V DC CE, UL, CSA	Short body Stainless steel IP 67 300 Hz (flush) 100 Hz (non-flush) -25° to 70°C (-13° to 158°F) 7 to 9 V DC CE, UL, CSA	Long body Stainless steel IP 67 300 Hz (flush) 100 Hz (non-flush) -25° to 70°C (-13° to 158°F) 7 to 9 V DC CE, UL, CSA
Flush IA18ELF05UC IA18ELF05UCM1 Non-flush IA18ELN08UC IA18ELN08UCM1	Flush IA30CSF10UC IA30CSF10UCM1 Non-flush IA30CSN15UC IA30CSN15UCM1	Flush IA30CLF10UC IA30CLF10UCM1 Non-flush IA30CLN15UC IA30CLN15UCM1	Flush IA30ESF10UC IA30ESF10UCM1 Non-flush IA30ESN15UC IA30ESN15UCM1	Flush IA30ELF10UC IA30ELF10UCM1 Non-flush IA30ELN15UC IA30ELN15UCM1

Inductive sensors

Selection guide

High temperature

Diameter	M5 (IA05) M8 (IA08)	M12	M18	M30
Sensing distance (S_n)	0.8 mm (IA05) 1 mm (IA08)	2 mm (flush) 4 mm (non-flush)	5 mm (flush) 8 mm (non-flush)	10 mm (flush) 15 mm (non-flush)
Range	Standard	Standard	Standard	Standard



Family	IA05 / IA08	IA12	IA18	IA30
Housing	Short body	Short body	Short body	Short body
Material	Stainless steel	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
Degree of protection	IP 67	IP 67	IP 67	IP 67
Operating frequency	3 kHz (IA05) 2 kHz (IA08)	2 kHz (flush) 1 kHz (non-flush)	1 kHz (flush) 500 Hz (non-flush)	500 Hz (flush) 300 Hz (non-flush)
Operating temperature	-25° to 120°C (-13° to 248°F)	-40° to 100°C (-40° to 212°F) (*)	-40° to 100°C (-40° to 212°F)	-40° to 100°C (-40° to 212°F)
Rated operating voltage	10 to 30 V DC	10 to 30 V DC (**)	10 to 30 V DC	10 to 30 V DC
Approvals/Marks	CE	CE	CE	CE

References

Mounting	Flush	Flush	Flush	Flush	
	NPN NC	IA12ASF02NCHT			
3-wire DC	Cable NPN	IA05BSF08NOHT-K			
		IA08BSF10NOHT-K			
	NO				
	PNP	IA05BSF08POHT-K	IA12ASF02POHT-K	IA18ASF05POHT-K	IA30ASF10POHT-K
		IA08BSF10POHT-K			
Plug	PNP NO		IA12ASF02POM1HT-K	IA18ASF05POM1HT-K	IA30ASF10POM1HT-K
NAMUR			IA12ASF02UHT-K		
Mounting		Non- flush	Non- flush	Non- flush	Non- flush
3-wire DC	Cable PNP NO		IA12ASN04POHT-K	IA18ASN08POHT-K	IA30ASN15POHT-K
	Plug		IA12ASN04POM1HT-K	IA18ASN08POM1HT-K	IA30ASN15POM1HT-K

(*) Operating temperature:
NAMUR version -25° to +120°C (-13° to +248°F)

(**) Rated operating voltage:
NAMUR version 8 V DC

Slotted

Dimensions L x H x W (mm) **15 x 19.2 x 10.2** **15 x 19.2 x 10.2** **30 x 28.6 x 16.4** **45 x 44.5 x 25.6**

Slot size	3.5 mm	5 mm	6 mm	10 mm
Range	Standard	Standard	Standard	Standard



Family	DU3.5	DU5	DU6	DU10
Housing	Slot type	Slot type	Slot type	Slot type
Material	ABS	ABS	ABS	ABS
Degree of protection	IP 67	IP 67	IP 67	IP 67
Operating frequency	2 kHz	1.5 kHz	2 kHz	1 kHz
Operating temperature	-20° to 60°C (-4° to 140°F)	-20° to 60°C (-4° to 140°F)	-20° to 60°C (-4° to 140°F)	-20° to 60°C (-4° to 140°F)
Rated operating voltage (*)	7 to 9 V DC	7 to 9 V DC	7 to 9 V DC 21.6 to 26.4 V DC	7 to 9 V DC 21.6 to 26.4 V DC
Approvals/Marks	CE	CE	CE (only Namur)	CE (only Namur)

References

3-wire DC	NPN NO		DU6E	DU10E
NAMUR		DU3.5	DU5	DU6

(*) Rated operating voltage:
7 to 9 V DC (Namur)
21.6 to 26.4 V DC (3-wire DC)

Inductive sensors

Selection guide

Flat pack

Dimensions (mm)	8 x 8 x 40 (...-K) 8 x 8 x 60 (...M5-K)	17.5 x 17 x 28.5	25 x 10 x 50			
Sensing distance (S_n)	1.5 mm	4 mm	5 mm			
Range	Standard	Standard	Standard			
Mounting	Flush	Non-flush	Flush			
Family	IC08	IC17	ID25			
Housing	Block shaped / square-section	Block shaped / rectangular-section	Block shaped / rectangular-section			
Material	Nickel-plated brass	Plastic	Nickel-plated brass			
Degree of protection	IP 65 (cable version) IP 67 (plug version)	IP 67	IP 67			
Operating frequency	1 kHz (cable version) 2 kHz (plug version)	500 Hz	1 kHz			
Operating temperature	-25° to 70°C (-13° to 158°F)	-25° to 70°C (-13° to 158°F)	-25° to 70°C (-13° to 158°F)			
Rated operating voltage	10 to 30 V DC	10 to 30 V DC	10 to 30 V DC			
Approvals/Marks	CE	CE	CE			
References						
3-wire DC	Cable	NPN PNP	NO	IC08ANC15NO-K IC08ANC15PO-K IC08ANC15NOM5-K	IC17CNC04NO-K IC17CNC04PO-K	ID25ANC05NO-K ID25ANC05PO-K
	Plug	NPN				
4-wire DC	Cable	NPN PNP	NO + NC			ID25ANC05NA-K ID25ANC05PA-K

Flat pack (EI55) / Rotable head (IC40)

Dimensions (mm)	35 x 55 x 15	35 x 55 x 15	40 x 40 x 118
Sensing distance (S_n)	10 mm	15 mm	30 mm
Range	Standard	Standard	Standard
Mounting	Flush	Non-flush	Non-flush



Family	EI55	EI55	IC40
Housing	Flat-pack	Flat-pack	Rectangular section
Material	Polycarbonate	Polycarbonate	PBT
Degree of protection	IP 67	IP 67	IP 67
Operating frequency	500 Hz	250 Hz	25 Hz (2-wire AC) 40 Hz (2-wire DC) 100 Hz (4-wire DC)
Operating temperature	-25° to 70°C (-13° to 158°F)	-25° to 70°C (-13° to 158°F)	-25° to 70°C (-13° to 158°F)
Rated operating voltage (*)	10 to 40 V DC	10 to 40 V DC	20 to 250 V AC/DC 20 to 250 V AC 10 to 30 V DC
Approvals/Marks	CE, UL, CSA	CE, UL, CSA	CE

References

2-wire AC/DC	MOSFET	NO	IC40CNN30COT1
2-wire AC	Terminal block	NC	IC40CNN30CCT1
		NO + NC	IC40CNN30TAT1
		NPN	IC40CNN30NAT1
		PNP	IC40CNN30PAT1
4-wire DC	Cable	NPN	EI5510NPAP
		PNP	EI5510PPAP
	Plug	NPN	EI5510NPAP-1
		PNP	EI5510PPAP-1
			EI5515NPAP-1
			EI5515PPAP-1

(*) Rated operating voltage IC40:
20 to 250 V AC/DC (2-wire AC/DC)
20 to 250 V AC (2-wire AC)
10 to 30 V DC (4-wire DC)

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@carlogavazzi.at

BELGIUM

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

DENMARK

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

FINLAND

Carlo Gavazzi OY AB
Petaksentie 2-4,
FI-00661 Helsinki
Tel: +358 9 756 2000
Fax: +358 9 756 20010
myynti@gavazzi.fi

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@carlogavazzi.fr

GERMANY

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

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@carlogavazzi.co.uk

ITALY

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

NETHERLANDS

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

NORWAY

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

PORTUGAL

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

SPAIN

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

SWEDEN

Carlo Gavazzi AB
V:a Kyrkogatan 1,
S-652 24 Karlstad
Tel: +46 54 85 1125
Fax: +46 54 85 1177
info@carlogavazzi.se

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@carlogavazzi.ch

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@carlogavazzi.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@carlogavazzi.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@carlogavazzi.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@carlogavazzi.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@carlogavazzi.com.sg

MALAYSIA

Carlo Gavazzi Automation (M) SDN. BHD.
D12-06-G, Block D12,
Putat 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@carlogavazzi.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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Uab Carlo Gavazzi Industri Kaunas
Kaunas

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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