



## Overview

# Inductive sensors

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## Inductive sensors

	Family	Housing size	Mounting			Operating distance [mm]	Supply voltage U <sub>b</sub>							Operating temperature					Hz	Special features								
			Flush	Non-flush	Quasi-flush		8 to 60 VDC	10 to 36 VDC	10 to 30 VDC	10 to 40 VDC	10 to 60 VDC	20 to 265 VAC	20 to 250 VAC/VDC	7 to 9 VDC	-20 to 60°C	-25 to 70°C	-25 to 80°C	-40 to 70°C		-40 to 80°C	-40 to +85°C	Op. frequency	Smart - IO-Link	Triple distance	Washdown	ECOLAB	Visual adj. indicator	EI rated
HARSH DUTY Mobile equipment	ICS12 EI	M12	▼			4 mm	▼												1.300									
		M12	▼	▼		8 mm	▼												1.300									
	ICS18 EI	M18	▼			8 mm	▼												900									
		M18	▼	▼		14 mm	▼												900									
	ICS30 EI	M30	▼			15 mm	▼												300									
		M30	▼	▼		22 mm	▼												300									
WASHDOWN Food & beverage	ICS12 FB	M12	▼			2 mm		▼										2.000		▼	▼							
		M12	▼			4 mm		▼										2.000		▼	▼							
		M12	▼	▼		4 mm		▼										2.000		▼	▼							
		M12	▼	▼		8 mm		▼										2.000		▼	▼							
	ICS18 FB	M18	▼			5 mm		▼										1.500		▼	▼							
		M18	▼	▼		8 mm		▼										1.500		▼	▼							
		M18	▼	▼		8 mm		▼										1.500		▼	▼							
		M18	▼	▼		12 mm		▼										1.500		▼	▼							
	ICS30 FB	M30	▼			10 mm		▼										1.000		▼	▼							
		M30	▼			15 mm		▼										1.000		▼	▼							
		M30	▼	▼		15 mm		▼										1.000		▼	▼							
		M30	▼	▼		22 mm		▼										1.000		▼	▼							
GENERAL PURPOSE	ICB12	M12	▼			2 mm		▼									2.000		▼									
		M12	▼			4 mm		▼									2.000		▼									
		M12	▼	▼		6 mm		▼									2.000		▼	▼								
		M12	▼	▼		4 mm		▼									2.000		▼									
		M12	▼	▼		8 mm		▼									2.000		▼									
		M12	▼	▼		10 mm		▼									2.000		▼									
	ICB18	M18	▼			5 mm		▼									1.500		▼									
		M18	▼			8 mm		▼									1.500		▼									
		M18	▼	▼		12 mm		▼									1.500		▼									
		M18	▼	▼		8 mm		▼									1.500		▼									
		M18	▼	▼		14 mm		▼									1.500		▼									
		M18	▼	▼		20 mm		▼									1.500		▼									
	ICB30	M30	▼			10 mm		▼									1.000		▼									
		M30	▼			15 mm		▼									1.000		▼									
		M30	▼	▼		22 mm		▼									100		▼									
		M30	▼	▼		15 mm		▼									1.000		▼									
		M30	▼	▼		20 mm		▼									1.000		▼									
		M30	▼	▼		40 mm		▼									100		▼									
DURABLE	IBS04	Ø4	▼			0.8 mm		▼									6.000											
		Ø4	▼			1.3 mm		▼									4.500		▼									
	ICS05	M5	▼			0.8 mm		▼									6.000											
		M5	▼			1.3 mm		▼									4.500		▼									
	IBS06	Ø6.5	▼			2 mm		▼									2.000											
		M8	▼			1 mm		▼									2.000											
	ICS08	M8	▼			2 mm		▼									2.000		▼									
		M8	▼	▼		2 mm		▼									2.000											
		M8	▼	▼		4 mm		▼									2.000		▼									
		M8	▼	▼		2 mm		▼									2.000											
	EI12	M12	▼			2 mm					▼ <sup>1</sup>						800 <sup>4</sup>											
		M12	▼	▼		4 mm					▼ <sup>1</sup>					500 <sup>4</sup>												
M18		▼			5 mm					▼ <sup>1</sup>					500 <sup>4</sup>													
M18		▼	▼		8 mm					▼ <sup>1</sup>					400 <sup>4</sup>													
EI30	M30	▼			10 mm					▼ <sup>1</sup>					300 <sup>4</sup>													
	M30	▼	▼		15 mm					▼ <sup>1</sup>					100 <sup>4</sup>													
DIRECT CURRENT	IA08	M8	▼			2 mm					▼					2.000												
		M8	▼	▼		4 mm						▼				2.000												
	IA12	M12	▼			4 mm						▼				1.000												
		M12	▼	▼		8 mm							▼			800												
	IA18	M18	▼			8 mm							▼			500												
		M18	▼	▼		14 mm								▼		400												
IA30	M30	▼			15 mm								▼		400													
	M30	▼	▼		22 mm										200													
HAZARDOUS LOCATIONS	EI08	M8	▼			1 mm						▼			2.000													
		M8	▼	▼		2 mm							▼		1.500													
	IA12	M12	▼			2 mm							▼		1.400													
		M12	▼	▼		4 mm							▼		1.200													
	IA18	M18	▼			5 mm							▼		500													
		M18	▼	▼		8 mm							▼		200													
IA30	M30	▼			10 mm							▼		300														
	M30	▼	▼		15 mm							▼		100														
RECTANGULAR	EI55	35x55x15	▼			10 mm									500													
		35x55x15	▼			15 mm									250													
IC40	40x40x18	▼			30 mm				▼ <sup>3</sup>						100 <sup>4</sup>													

<sup>1</sup> DC 3-wire - <sup>2</sup> AC 2-wire - <sup>3</sup>



# Overview

## Inductive sensors

### HARSH DUTY Mobile equipment - Stainless steel - 3-wire DC



Family	ICS12...E1	ICS18...E1	ICS30...E1
SELECTION GUIDE	ICS12 XXX YYY ΔΔ ZZ E1	ICS18 XXX YYY ΔΔ ZZ E1	ICS30 XXX YYY ΔΔ ZZ E1
XXX: Housing	L50: Standard	L50: Standard	L50: Standard
YYY <sup>1</sup> : Operating distance, Sn	F04: 4 mm / N08: 8 mm	F08: 8 mm / N14: 14 mm	F15: 15 mm / N22: 22 mm
ΔΔ: Output	NO: NPN-NO / PO: PNP-NO NC: NPN-NC / PC: PNP-NC	NO: NPN-NO / PO: PNP-NO NC: NPN-NC / PC: PNP-NC	NO: NPN-NO / PO: PNP-NO NC: NPN-NC / PC: PNP-NC
ZZ: Connection	M1: M12-plug / B2: 2 m PUR cable	M1: M12-plug / B2: 2 m PUR cable	M1: M12-plug / B2: 2 m PUR cable
Range	Extended [2x]	Extended [2x]	Extended [2x]
Degree of protection	IP67 - IP68 - IP69K	IP67 - IP68 - IP69K	IP67 - IP68 - IP69K
Operating temperature	-40°C...+85°C (-40°F to +185°F)	-40°C...+85°C (-40°F...+185°F)	-40°C...+85°C (-40°F...+185°F)
Approvals / Certifications	CE - cULus - E1 ECE 10R-06	CE - cULus - E1 ECE 10R-06	CE - cULus - E1 ECE 10R-06
Main feature	Reliable operation in mobile equipment. Load-dump protection, high vibration and shock resistance, 8-60 VDC supply voltage, 200 V/m radiated noise immunity		

### WASHDOWN Food & beverage - Stainless steel - 3-wire DC



Family	ICS12...-FB	ICS18...-FB	ICS30...-FB
SELECTION GUIDE	ICS12 X-YYY ΔΔ ZZ-FB	ICS18 X-YYY ΔΔ ZZ-FB	ICS30 X-YYY ΔΔ ZZ-FB
X: Housing	L: Standard	L: Standard	S: Short / L: Standard
YYY <sup>1</sup> : Operating distance, Sn	F02: 2 mm / F04: 4 mm N04: 4 mm / N08: 8 mm	F05: 5 mm / F08: 8 mm N08: 8 mm / N12: 12 mm	F10: 10 mm / F15: 15 mm N15: 15 mm / N22: 22 mm
ΔΔ: Output	NO: NPN-NO / PO: PNP-NO NC: NPN-NC / PC: PNP-NC	NO: NPN-NO / PO: PNP-NO NC: NPN-NC / PC: PNP-NC	NO: NPN-NO / PO: PNP-NO NC: NPN-NC / PC: PNP-NC
ZZ: Connection	M1: M12-plug	M1: M12-plug	M1: M12-plug
Degree of protection	IP67 - IP68 - IP69K	IP67 - IP68 - IP69K	IP67 - IP68 - IP69K
Range	Standard [1x] / Extended [2x]	Standard [1x] / Extended [2x]	Standard [1x] / Extended [2x]
Operating temperature	-40°C...+80°C (-40°F...+176°F)	-40°C...+80°C (-40°F...+176°F)	-40°C...+85°C (-40°F...+185°F)
Approvals / Certifications	CE - cULus - ECOLAB - Class I Div. 2	CE - cULus - ECOLAB - Class I Div. 2	CE - cULus - ECOLAB - Class I Div. 2
Main feature	Food and beverage applications, FDA approved plastic face, microprocessor based		

### GENERAL PURPOSE - Nickel-plated brass - 3-wire DC



Family	ICB12S23...	ICB12...	ICB18...	ICB30...
SELECTION GUIDE	ICB12 XXX YYY ZZ ΔΔ	ICB12 XXX YYY ΔΔ ZZ	ICB18 XXX YYY ΔΔ ZZ	ICB30 XXX YYY ΔΔ ZZ
XXX: Housing	S23: Extra-short	S30: Short / L50: Standard	S30: Short / L50: Standard	S30 <sup>1</sup> : Short / S35 <sup>2</sup> : Short / L50: Standard
YYY <sup>1</sup> : Operating distance, Sn	F04: 4 mm N08: 8 mm	F02: 2 mm / F04: 4 mm F06 <sup>3</sup> : 8 mm / N04: 4 mm N08: 8 mm / N10: 10 mm	F05: 5 mm / F08: 8 mm F12 <sup>3</sup> : 12 mm / N08: 8 mm N14: 14 mm / N20: 20 mm	F10: 10 mm / F15: 15 mm F22 <sup>3</sup> : 22 mm / N15: 15 mm N22: 22 mm / N40: 40 mm
ΔΔ: Output	NO: NPN-NO / PO: PNP-NO NC: NPN-NC / PC: PNP-NC	NO: NPN-NO / PO: PNP-NO NC: NPN-NC / PC: PNP-NC	NO: NPN-NO / PO: PNP-NO NC: NPN-NC / PC: PNP-NC	NO: NPN-NO / PO: PNP-NO NC: NPN-NC / PC: PNP-NC
ZZ: Connection	M1: M12-plug A2: 2 m PVC cable	M1: M12-plug Nil: 2 m PVC cable	M1: M12-plug Nil: 2 m PVC cable	M1: M12-plug Nil: 2 m PVC cable
Range	Extended [2x]	Standard [1x] / Extended [2x] / Increased [3x]	Standard [1x] / Extended [2x] / Increased [3x]	Standard [1x] / Extended [2x] / Increased [3x]
Degree of protection	IP67	IP67	IP67	IP67
Operating temperature	-25°C...+80°C (-13°F...+176°F)	-25°C...+70°C (-13°F...+158°F)	-25°C...+70°C (-13°F...+158°F)	-25°C...+70°C (-13°F...+158°F) <sup>4</sup>
Approvals / Certifications	CE - cULus	CE - cULus - cCSAus - Class I Div. 2	CE - cULus - cCSAus - Class I Div. 2	CE - cULus - cCSAus - Class I Div. 2
Main feature	Sensing range up to 40 mm with triple distance range, microprocessor based			

<sup>1</sup> Mounting type: F: Flush / N: Non-flush - <sup>2</sup> S35 Only with F22 / N40 operating distance - <sup>3</sup> Quasi-flush - <sup>4</sup> -40°C (-40°F) for plug version [1x] and [2x]

# Inductive sensors

## GENERAL PURPOSE - Nickel-plated brass - 4-wire DC



Family	ICB12	ICB18	ICB30
SELECTION GUIDE	ICB12 XXX YYY ΔΔ ZZ	ICB18 XXX YYY ΔΔ ZZ	ICB30 XXX YYY ΔΔ ZZ
XXX: Housing	S30: Short / L50: Standard	S30: Short / L50: Standard	S30: Short / L50: Standard
YYY <sup>1</sup> : Operating distance, Sn	F02: 2 mm / F04: 4 mm N04: 4 mm / N08: 8 mm	F05: 5 mm / F08: 8 mm N08: 8 mm / N14: 14 mm	F10: 10 mm / F15: 15 mm N15: 15 mm / N22: 22 mm
ΔΔ: Output	NA: NPN-NO+NC / PA: PNP-NO+NC	NA: NPN-NO+NC / PA: PNP-NO+NC	NA: NPN-NO+NC / PA: PNP-NO+NC
ZZ: Connection	M1: M12-plug / Nil: 2 m PVC cable	M1: M12-plug / Nil: 2 m PVC cable	M1: M12-plug / Nil: 2 m PVC cable
Range	Standard [1x] / Extended [2x]	Standard [1x] / Extended [2x]	Standard [1x] / Extended [2x]
Degree of protection	IP67	IP67	IP67
Operating temperature	-25°C...+70°C (-13°F...+158°F)	-25°C...+70°C (-13°F...+158°F)	-25°C...+70°C (-13°F...+158°F) <sup>2</sup>
Approvals / Certifications	CE - cULus	CE - cULus	CE - cULus
Main feature	Sensing range up to 22 mm, antivalent (NO+NC) output for stock reduction, microprocessor based		

## GENERAL PURPOSE - Nickel-plated brass - IO-Link



Family	ICB12...IO	ICB18...IO	ICB30...IO
SELECTION GUIDE	ICB12 XXX YYY ZZ IO	ICB18 XXX YYY ZZ IO	ICB30 XXX YYY ZZ IO
XXX: Housing	S30: Short / L50: Standard	S30: Short / L50: Standard	S30: Short / L50: Standard
YYY <sup>1</sup> : Operating distance, Sn	F04: 4 mm / N08: 8 mm	F08: 8 mm / N14: 14 mm	F15: 15 mm / N22: 22 mm
ZZ: Connection	M1: M12-plug / A2: 2 m PVC cable	M1: M12-plug / A2: 2 m PVC cable	M1: M12-plug / A2: 2 m PVC cable
Range	Adj. 33% / 50% / 75% / 100%	Adj. 33% / 50% / 75% / 100%	Adj. 33% / 50% / 75% / 100%
Degree of protection	IP67	IP67	IP67
Operating temperature - Cable	-25°C...+70°C (-13°F...+158°F)	-25°C...+70°C (-13°F...+158°F)	-25°C...+70°C (-13°F...+158°F)
Operating temperature - Plug	-40°C...+70°C (-40°F...+158°F)	-40°C...+70°C (-40°F...+158°F)	-40°C...+70°C (-40°F...+158°F)
Approvals / Certifications	CE - cULus - IO-Link V1.1	CE - cULus - IO-Link V1.1	CE - cULus - IO-Link V1.1
Main feature	Configurable smart sensors; Presence or Frequency Detection mode; Switchpoint mode: Single Point, Two Point or Window; Time delay: ON, OFF, One shot; Output: NPN, PNP or Push-Pull, NO or NC; Sn: configurable; Hysteresis: standard or extended; Divider function; Temperature alarm		

## DURABLE - Stainless steel - 3-wire DC



Family	IBS04	ICS05	IBS06
SELECTION GUIDE	IBS04 X YYY ZZ ΔΔ	ICS05 X YYY ZZ ΔΔ	IBS06 X YYY ΔΔ ZZ
X: Housing	S: Short	S23: Short	S: Short / L: Standard
YYY <sup>1</sup> : Operating distance, Sn	F08: 0.8 mm / F15: 1.3 mm	F08: 0.8 mm / F15: 1.3 mm	F02: 2 mm
ZZ: Connection	M5: M8-plug / A2: 2 m PVC cable	M5: M8-plug / A2: 2 m PVC cable	M5: M8-plug / Nil: 2 m PVC cable
ΔΔ: Output	NO: NPN-NO / PO: PNP-NO NC: NPN-NC / PC: PNP-NC	NO: NPN-NO / PO: PNP-NO NC: NPN-NC / PC: PNP-NC	NO: NPN-NO / PO: PNP-NO NC: NPN-NC / PC: PNP-NC
Range	Standard [1x] / Extended [2x]	Standard [1x] / Extended [2x]	Extended [2x]
Degree of protection	IP67	IP67	IP67
Operating temperature	-25°C...+70°C (-13°F...+158°F)	-25°C...+70°C (-13°F...+158°F)	-25°C...+80°C (-13°F...+176°F)
Approvals / Certifications	CE - UL - CSA	CE - UL - CSA	CE - cULus
Main feature	Small housing and light weight, high switching frequencies up to 6 kHz, rugged stainless steel housings, microprocessor based		

<sup>1</sup> Mounting type: F: Flush / N: Non-flush - <sup>2</sup> -40°C (-40°F) for plug version [1x] and [2x]



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## DURABLE - Stainless steel - IO-Link



Family	<b>IBS04...IO</b>	<b>ICS05...IO</b>	<b>ICS08...IO</b>
SELECTION GUIDE	<b>IBS04 XXX YYY ZZ IO</b>	<b>ICS05 XXX YYY ZZ IO</b>	<b>ICS08 XXX YYY ZZ IO</b>
XXX: Housing	S: Short	S23: Short	S30: Short / L45: Standard
YYY <sup>1</sup> : Operating distance, Sn	F15: 1.3 mm	F15: 1.3 mm	F20: 2 mm / N40: 4 mm
ZZ: Connection	M5: M8-plug / A2: 2 m PVC cable	M5: M8-plug / A2: 2 m PVC cable	M5: M8-plug / A2: 2 m PVC cable
Range	Adj. 62% / 100% mm	Adj. 62% / 100% mm	Adj. 50% / 100%
Degree of protection	IP67	IP67	IP67
Operating temperature	-25°C ... +70°C (-13°C ... +158°F)	-25°C ... +70°C (-13°C ... +158°F)	-25°C ... +80°C (-13°F ... +176°F)
Approvals / Certifications	CE - UL - CSA - IO-Link V1.1	CE - UL - CSA - IO-Link V1.1	CE - UL - CSA - IO-Link V1.1
Main feature	Configurable smart sensors; Presence or Frequency Detection mode; Switchpoint mode: Single Point, Two Point or Window; Time delay: ON, OFF, One shot; Output: NPN, PNP or Push-Pull, NO or NC; Sn: configurable; Hysteresis: standard or extended; Divider function; Temperature alarm		

## DURABLE - Stainless steel - 3-wire and 4-wire DC



Family	<b>ICS08</b>	<b>ICS08...M1</b>	<b>ICS08</b>
SELECTION GUIDE	<b>ICS08 XXX YYY ΔΔ ZZ</b>	<b>ICS08 XXX YYY ΔΔ ZZ</b>	<b>ICS08 XXX YYY ΔΔ ZZ</b>
XXX: Housing	S30: Short / L45: Standard	S30: Short	S30: Short / L45: Standard
YYY <sup>1</sup> : Operating distance, Sn	F01: 1 mm / F02: 2 mm N02: 2 mm / N04: 4 mm	F15: 1.5 mm / N25: 2.5 mm	F02: 2 mm / N04: 4 mm
ΔΔ: Output	NO: NPN-NO / PO: PNP-NO NC: NPN-NC / PC: PNP-NC	PO: PNP-NO	NA: NPN-NO+NC / PA: PNP-NO+NC
ZZ: Connection	M5: M8-plug / Nil: 2 m PVC cable	M1: M12-plug	M5: M8-plug / Nil: 2 m PVC cable
Range	Standard [1x] / Extended [2x]	Standard [1x] / Extended [2x]	Standard [1x] / Extended [2x]
Degree of protection	IP67	IP67	IP67
Operating temperature	-25°C...+80°C (-13°F...+176°F)	-25°C...+80°C (-13°F...+176°F)	-25°C...+80°C (-13°F...+176°F)
Approvals / Certifications	CE - cULus	CE - cULus	CE - cULus
Main feature	Sensing range up to 4 mm, rugged stainless steel housings, microprocessor based		

## DURABLE - Stainless steel - 2-wire AC and 3-wire DC



Family	<b>EI12</b>	<b>EI18</b>	<b>EI30</b>
SELECTION GUIDE	<b>EI12 YY ΔΔΔ XX ZZ</b>	<b>EI18 YY ΔΔΔ XX ZZ</b>	<b>EI30 YY ΔΔΔ XX ZZ</b>
YY: Operating distance, Sn	O2: 2 mm Flush / O4: 4 mm Non-flush	O5: 5 mm Flush / O8: 8 mm Non-flush	O10: 10 mm Flush / O15: 15 mm Non-flush
ΔΔΔ: Output	2-wire: TBO: SCR-NO / TBC: SCR-NC 3-wire: NPO: NPN-NO / PPO: PNP-NO / NPC <sup>2</sup> : NPN-NC / PPC: PNP-NC	2-wire: TBO: SCR-NO / TBC: SCR-NC 3-wire: NPO: NPN-NO / PPO: PNP-NO / NPC: NPN-NC / PPC: PNP-NC	2-wire: TBO: SCR-NO / TBC: SCR-NC 3-wire: NPO <sup>3</sup> : NPN-NO / PPO: PNP-NO / NPC <sup>4</sup> : NPN-NC / PPC <sup>4</sup> : PNP-NC
XX: Housing	SS: Short (only for DC versions) SL: Standard	SS: Short SL: Standard	SS: Short SL: Standard
ZZ: Connection	2-wire: -6: M12-plug / Nil: 2 m PVC cable 3-wire: -1: M12-plug / Nil: 2 m PVC cable	2-wire: -6 <sup>5</sup> : M12-plug / Nil: 2 m PVC cable 3-wire: -1: M12-plug / Nil: 2 m PVC cable	2-wire: -6 <sup>6</sup> : M12-plug / Nil: 2 m PVC cable 3-wire: -1: M12-plug / Nil: 2 m PVC cable
Range	Standard [1x]	Standard [1x]	Standard [1x]
Degree of protection	IP67	IP67	IP67
Operating temperature	-25°C...+70°C (-13°F...+158°F)	-25°C...+70°C (-13°F...+158°F)	-25°C...+70°C (-13°F...+158°F)
Approvals / Certifications	CE - UL - CSA	CE - UL - CSA	CE - UL - CSA

<sup>1</sup> Mounting type: F: Flush / N: Non-flush - <sup>2</sup> Available with SS version only - <sup>3</sup> Available with EI3010NPOSS, EI3010NPOS, EI3015NPOSS, EI3015NPOSS-1, EI3015NPOS - <sup>4</sup> Available with cable version only -

<sup>5</sup> Available with EI1805TBOSS, EI1805TBOSL, EI1808TBOSS, EI1808TBOSL and EI1808TBOSL - <sup>6</sup> Available with EI3015TBOSS, EI3010TBOSL and EI3015TBOSL -

# Inductive sensors

## DIRECT CURRENT - Stainless steel and Nickel-plated brass - 2-wire DC



Family	IA08	IA12	IA18	IA30
SELECTION GUIDE	IA08 XX YYY ΔΔ ZZ	IA12 XX YYY ΔΔ ZZ	IA18 XX YYY ΔΔ ZZ	IA30 XX YYY ΔΔ ZZ
XX: Housing	Stainless steel - Short BS: with cable	Nickel-plated brass - Short DS: with cable / AS: with plug	Nickel-plated brass - Short DS: with cable / AS: with plug	Nickel-plated brass - Short DS: with cable / AS: with plug
YYY <sup>1</sup> : Operating distance, Sn	F02: 2 mm / N04: 4 mm	F04: 4 mm / N08: 8 mm	F08: 8 mm / N14: 14 mm	F15: 15 mm / N22: 22 mm
ΔΔ: Output	DO: NO / DC: NC	DO: NO / DC: NC	DO: NO / DC: NC	DO: NO / DC: NC
ZZ: Connection	Nil: 2 m PVC cable	M1: M12-plug / Nil: 2 m PVC cable	M1: M12-plug / Nil: 2 m PVC cable	M1: M12-plug / Nil: 2 m PVC cable
Range	Extended [2x]	Extended [2x]	Extended [2x]	Extended [2x]
Degree of protection	IP67	IP67	IP67	IP67
Operating temperature	-25°C...+70°C (-13°F...+158°F)	-25°C...+70°C (-13°F...+158°F)	-25°C...+70°C (-13°F...+158°F)	-25°C...+70°C (-13°F...+158°F)
Approvals / Certifications	CE - CSA	CE - UL - CSA	CE - UL - CSA	CE - UL - CSA

## HAZARDOUS LOCATIONS - Stainless steel - NAMUR



Family	EI08	IA12	IA18	IA30
SELECTION GUIDE	EI XX YYY ΔΔ ZZ	IA12 XX YYY ΔΔ ZZ	IA18 XX YYY ΔΔ ZZ	IA30 XX YYY ΔΔ ZZ
XX: Housing	O8: M8 Short	ES: Short EL: Standard	ES: Short EL: Standard	ES: Short EL: Standard
YYY <sup>1</sup> : Operating distance, Sn	O1: 1 mm Flush / O2: 2 mm Non-flush	F02: 2 mm / N04: 4 mm	F05: 5 mm / N08: 8 mm	F10: 10 mm / N15: 15 mm
ΔΔ: Output	NA: NAMUR DIN 19324	UC: NAMUR EN 50 227	UC: NAMUR EN 50 227	UC: NAMUR EN 50 227
ZZ: Connection	CS: 2 m PVC cable	M1: M12-plug / Nil: 2 m PVC cable	M1: M12-plug / Nil: 2 m PVC cable	M1: M12-plug / Nil: 2 m PVC cable
Range	Standard [1x]	Standard [1x]	Standard [1x]	Standard [1x]
Degree of protection	IP67	IP67	IP67	IP67
Operating temperature	-25°C...+70°C (-13°F...+158°F)	-25°C...+70°C (-13°F...+158°F)	-25°C...+70°C (-13°F...+158°F)	-25°C...+70°C (-13°F...+158°F)
Approvals / Certifications	CE - UL - CSA	CE - UL - CSA	CE - UL - CSA	CE - UL - CSA

## RECTANGULAR - Plastic - 4-wire DC and 2-wire AC



Family	EI55	IC40
SELECTION GUIDE	EI55 YY ΔΔΔ X ZZ	IC40 XXX YY ΔΔ ZZ
XXX: Housing	P: Polycarbonate	CNN: Thermoplastic polyester
YY: Operating distance, Sn	10: 10 mm Flush / 15: 15 mm Non-flush	30: 30 mm Non-flush
ΔΔΔ <sup>1</sup> : Output	NPA: NPN-NO+NC PPA: PNP-NO+NC	NA: NPN - NO+NC PA: PNP - NO+NC CO: MOSFET AC/DC - NO - CC: MOSFET AC/DC - NC TA: MOSFET AC - NO / NC
ZZ: Connection	-1: M12-plug Nil: 2 m PVC cable	T1: M20x1.5 cable gland
Range	Standard [1x]	Standard [1x]
Degree of protection	IP67	IP67
Operating temperature	-25°C...+70°C (-13°F...+158°F)	-25°C...+70°C (-13°F...+158°F)
Approvals / Certifications	CE - UL - CSA	CE

<sup>1</sup> Mounting type: F: Flush / N: Non-flush

## OUR SALES NETWORK IN EUROPE

### AUSTRIA

Carlo Gavazzi GmbH  
Ketzerergasse 374,  
A-1230 Wien  
Tel: +43 1 888 4112  
Fax: +43 1 889 1053  
office@carlogavazzi.at

### BELGIUM

Carlo Gavazzi NV/SA  
Mechelsesteenweg 311,  
B-1800 Vilvoorde  
Tel: +32 2 257 41 20  
sales@carlogavazzi.be

### DENMARK

Carlo Gavazzi Handel A/S  
Over Hadstensevej 40,  
DK-8370 Hadsten  
Tel: +45 89 60 61 00  
Fax: +45 86 98 15 30  
handel@gavazzi.dk

### FINLAND

Carlo Gavazzi OY AB  
Ahventie, 4 B  
FI-02170 Espoo  
Tel: +358 9 756 2000  
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 81 00 0  
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 854110  
Fax: +44 1 276 682140  
sales@carlogavazzi.co.uk

### ITALY

Carlo Gavazzi SpA  
Via Milano, 13,  
I-20045 Lainate  
Tel: +39 02 931 76 1  
Fax: +39 02 931 76 301  
info@gavazziacbu.it

### NETHERLANDS

Carlo Gavazzi BV  
Wijkermeerweg 23,  
NL-1948 NT Beverwijk  
Tel: +31 251 22 93 45  
Fax: +31 251 22 60 55  
info@carlogavazzi.nl

### NORWAY

Carlo Gavazzi AS  
Melkeveien 13,  
N-3919 Parsgrunn  
Tel: +47 35 93 08 00  
Fax: +47 35 93 08 01  
post@gavazzi.no

### PORTUGAL

Carlo Gavazzi Lda  
Rua dos Jerónimos 38-B,  
P-1400-212 Lisboa  
Tel: +351 21 361 70 60  
Fax: +351 21 362 13 73  
carlogavazzi@carlogavazzi.pt

### SPAIN

Carlo Gavazzi SA  
Avda. Iparraguirre, 80-82,  
E-48940 Leioa (Bizkaia)  
Tel: +34 94 480 40 37  
Fax: +34 94 431 60 81  
gavazzi@gavazzi.es

### SWEDEN

Carlo Gavazzi AB  
V:a Kyrkogatan 1,  
S-652 24 Karlstad  
Tel: +46 54 85 11 25  
Fax: +46 54 85 11 77  
info@carlogavazzi.se

### SWITZERLAND

Carlo Gavazzi AG  
Verkauf Schweiz/Vente Suisse  
Sumpfstrasse 3,  
CH-6312 Steinhausen  
Tel: +41 41 747 45 35  
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 60089-6904, USA  
Tel: +1 847 465 61 00  
Fax: +1 847 465 73 73  
sales@carlogavazzi.com

### CANADA

Carlo Gavazzi Inc.  
2660 Meadowvale Boulevard,  
Mississauga, ON L5N 6M6, Canada  
Tel: +1 905 542 0979  
Fax: +1 905 542 2248  
gavazzi@carlogavazzi.com

### MEXICO

Carlo Gavazzi Mexico S.A. de C.V.  
Circuito Puericultores 22, Ciudad Satelite  
Naucalpan de Juárez, Edo Mex. CP 53100  
Mexico  
T +52 55 5373 7042  
F +52 55 5373 7042  
mexicosales@carlogavazzi.com

### BRAZIL

Carlo Gavazzi Automação Ltda.  
Av. Francisco Matarazzo, 1752  
Conj 2108 05001-200 - 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,  
Pusat Perdagangan Dana 1,  
Jalan PJU 1A/46, 47301 - Petaling Jaya,  
Selangor, Malaysia  
Tel: +60 3 7842 7299  
Fax: +60 3 7842 7399  
info@gavazzi-asia.com

### CHINA

Carlo Gavazzi Automation  
(China) Co. Ltd.  
Unit 2308, 23/F.,  
News Building, Block 1, 1002  
Middle Shennan Zhong Road, Futian District,  
Shenzhen, China  
Tel: +86 755 8369 9500  
Fax: +86 755 8369 9300  
sales@carlogavazzi.cn

### HONG KONG

Carlo Gavazzi Automation  
Hong Kong Ltd.  
Unit No. 16 on 25<sup>th</sup> Floor, One Midtown,  
No. 11 Hoi Shing Road, Tsuen Wan,  
New Territories, Hong Kong  
Tel: +852 26261332 / 26261333  
Fax: +852 26261316

### TAIWAN

Branch of Carlo Gavazzi Automation  
Singapore Pte. Ltd.  
22F-1, No.500 Shizheng Rd, Xitun Dist,  
Taichung City 407,  
Taiwan, China  
Tel: +886 4 2258 4001  
Fax: +886 4 2258 4002

## OUR COMPETENCE CENTRES AND PRODUCTION SITES

### DENMARK

Carlo Gavazzi Industri A/S  
Hadsten

### MALTA

Carlo Gavazzi Ltd  
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-20045 - Lainate (MI) - ITALY  
Tel: +39 02 931 76 1  
info@gavazziautomation.com

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