

## Overview

# Inductive sensors





# 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		

### FULL METAL Extreme mechanical resistance - Stainless steel - 3-wire DC



Family	ICF12...IO	ICF18...IO	ICF30...IO
SELECTION GUIDE	ICF12 XXX YYY ZZ IO	ICF18 XXX YYY ZZ IO	ICF30 XXX YYY ZZ IO
XXX: Housing	L45: Standard	L45: Standard	L45: 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 / B2: 2 m PUR cable	M1: M12-plug / B2: 2 m PUR cable	M1: M12-plug / B2: 2 m PUR cable
Degree of protection	IP67 - IP68 - IP69K	IP67 - IP68 - IP69K	IP67 - IP68 - IP69K
Range	Adj. 33% / 50% / 75% / 100%	Adj. 33% / 50% / 75% / 100%	Adj. 33% / 50% / 75% / 100%
Operating temperature	-40°C...+85°C (-40°F to +185°F)	-40°C...+85°C (-40°F to +185°F)	-40°C...+85°C (-40°F to +185°F)
Approvals / Certifications	CE - cULus - ECOLAB - IO-Link V1.1	CE - cULus - ECOLAB - IO-Link V1.1	CE - cULus - ECOLAB - IO-Link V1.1
Main feature	Full metal face resistant up to 260 bar pressure for M12, 200 bar for M18 and 100 bar for M30. 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; Proximity alarm; Low margin alarm; Activation level; Find my sensor.		

### 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 - IO-Link



Family	<b>ICB12...IO</b>	<b>ICB18...IO</b>	<b>ICB30...IO</b>
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	<b>IBS04</b>	<b>ICS05</b>	<b>IBS06</b>
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		

## DURABLE - Stainless steel - IO-Link

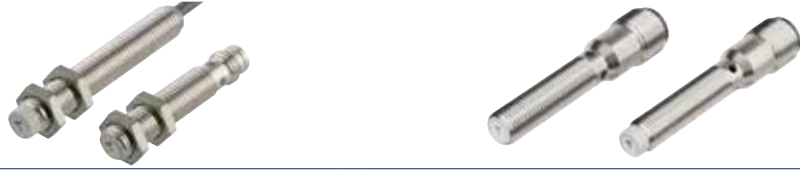


Family	<b>IBS04...IO</b>	<b>ICS05...IO</b>	<b>ICS08...IO</b>
SELECTION GUIDE	IBS04 XXX YYY ZZ IO	ICS05 XXX YYY ZZ IO	ICS08 XXX YYY ZZ IO
XXX: Housing	S: Short	S23: Short	S30: Short / L45: Standard
YYY <sup>1</sup> : Operating distance, Sn	F15: 1.3 mm	F15: 1.3 mm	F20: 2 mm / N40: 4 mm
ZZ: Connection	M5: 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		

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

# Inductive sensors

## DURABLE - Stainless steel - 3-wire



Family	ICS08	ICS08...M1
SELECTION GUIDE	ICS08 XXX YYY ΔΔ ZZ	ICS08 XXX YYY ΔΔ ZZ
XXX: Housing	S30: Short / L45: Standard	S30: Short
YYY!: Operating distance, Sn	F01: 1 mm / F02: 2 mm N02: 2 mm / N04: 4 mm	F15: 1.5 mm / N25: 2.5 mm
ΔΔ: Output	NO: NPN-NO / PO: PNP-NO / NC: NPN-NC / PC: PNP-NC	PO: PNP-NO
ZZ: Connection	M5: M8-plug / Nil: 2 m PVC cable	M1: M12-plug
Range	Standard [1x] / Extended [2x]	Standard [1x] / Extended [2x]
Degree of protection	IP67	IP67
Operating temperature	-25°C...+80°C (-13°F...+176°F)	-25°C...+80°C (-13°F...+176°F)
Approvals / Certifications	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	E112	E118	E130
SELECTION GUIDE	E112 YY ΔΔΔ XX ZZ	E118 YY ΔΔΔ XX ZZ	E130 YY ΔΔΔ XX ZZ
YY: Operating distance, Sn	02: 2 mm Flush / 04: 4 mm Non-flush	05: 5 mm Flush / 08: 8 mm Non-flush	10: 10 mm Flush / 15: 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: M12-plug / Nil: 2 m PVC cable 3-wire: -1: M12-plug / Nil: 2 m PVC cable	2-wire: -6: 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

## 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!: 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

<sup>1</sup> Mounting type: F: Flush / N: Non-flush - <sup>2</sup> Available with SS version only - <sup>3</sup> Available with E1301NPOSS, E1301NPOS, E1301NPOSS-1, E1301NPOS-1 - <sup>4</sup> Available with cable version only -

<sup>5</sup> Available with E11805TBOSS, E11805TBOSL, E11808TBOSS, E11808TBOSL and E11808TBCSL - <sup>6</sup> Available with E13015TBOSS, E13010TBOSL and E13015TBOSL -

# Inductive sensors

## HAZARDOUS LOCATIONS - Stainless steel - NAMUR



Family	<b>EI08</b>	<b>IA12</b>	<b>IA18</b>	<b>IA30</b>
SELECTION GUIDE	EI XX YYY ΔΔ ZZ	IA12 XX YYY ΔΔ ZZ	IA18 XX YYY ΔΔ ZZ	IA30 XX YYY ΔΔ ZZ
XX: Housing	08: 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...+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	<b>EI55</b>	<b>IRC40</b>	<b>IC40</b>
SELECTION GUIDE	EI55 YY ΔΔΔ X ZZ	IR X 40S YYY ZZ ΔΔ	IC40 XXX YY ΔΔ ZZ
XXX: Housing	P: Polycarbonate	C: Thermoplastic polyester	CNN: Thermoplastic polyester
YY: Operating distance, Sn	10: 10 mm Flush / 15: 15 mm Non-flush	F22: 22 mm Flush / N40: 40 mm Non-flush	30: 30 mm Non-flush
ΔΔΔ: 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	M1: M12-plug	T1: M20x1.5 cable gland
Degree of protection	IP67	IP67 - IP68 - IP69K	IP67
Operating temperature	-25°C...+70°C (-13°F...+158°F)	-25°C...+80°C (-13°F...+176°F)	-25°C...+70°C (-13°F...+158°F)
Approvals / Certifications	CE - UL - CSA	CE - cULus	CE
Main features	Easy mounting and compact dimensions	Rotatable sensing face, quick mounting system, 4 corner LEDs	Rotatable sensing face

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

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