

PB

Inductive Proximity Sensor



Key Features

- Shielded & unshielded versions
- Standard & long sensing range
- LED indication, 360° visible
- IP67 nickel plated brass housing or stainless steel
- AC & DC versions available



IMO Inductive Proximity Sensors range from 3mm in diameter to 30mm threaded, and a small selection of the more popular types is listed below. The standard body is made of nickel plated brass with stainless steel being available in the smaller devices and optional in the bigger sizes. Most devices are available as pre-cabled (2m standard, other lengths available) or with M8/M12 connector. In addition IMO also offers a range of cables to suit all sensors. Please visit www.imopc.com for information on IMO's full range.

PB Series Selection

Barrel Size	Type	Part Number	Output Logic	Sensing Distance	Exit	Length (mm)
M8	Shielded	PB0801/DSAP-H	PNP	1.5mm	M12 Plug	66
	Unshielded	PB0802/DUAP-H	PNP	2mm	M12 Plug	71
M12	Shielded	PB1202/DSAP-H	PNP	2mm	M12 Plug	65
	Unshielded	PB1204/DUAP-H	PNP	4mm	M12 Plug	70
M18	Shielded	PB1805/DSAP-H	PNP	5mm	M12 Plug	62
	Unshielded	PB1808/DUAP-H	PNP	8mm	M12 Plug	70.5
M30	Shielded	PB3010/DSAP-H	PNP	10mm	M12 Plug	68
	Unshielded	PB3015/DUAP-H	PNP	15mm	M12 Plug	81

Part Number	Output Logic	Sensing Distance	Exit	Length (mm)
PB0802/DSAP-H	PNP	2mm	M12 Plug	66
PB0804/DUAN-A	NPN	4mm	2m Cable	50
PB1204/DSAP-H	PNP	4mm	M12 Plug	65
PB1207/DUAP-H	PNP	7mm	M12 Plug	70
PB1808/DSAP-H	PNP	8mm	M12 Plug	62
PB1812/DUAP-H	PNP	12mm	M12 Plug	70.5
PB3015/DSAP-H	PNP	15mm	M12 Plug	68
PB3022/DUAP-H	PNP	22mm	M12 Plug	81

NOTE: Some popular options are shown above. For other options, please contact IMO.

FM

Inductive Proximity Sensor



Key Features

- Complete range of full metal inductive sensors
- AISI316L stainless steel housing, including the facia



Barrel Size	Installation	Sensing Distance	Connection	Distance (mm)	PNP NO	NPN NO	PNP NC	NPN NC
M8	Shielded	Enhanced	M8	2mm	FMES/AP-3F	FMES/AN-3F	FMES/CP-3F	FMES/CN-3F
M12	Shielded	Enhanced	M12	3mm	FMM6/AP-3H	FMM6/AN-3H	FMM6/CP-3H	FMM6/CN-3H

Barrel Size	Installation	Sensing Distance	Connection	Distance (mm)	PNP NO	NPN NO	PNP NO+NC	NPN NO+NC
M18	Shielded	Enhanced	M12	5mm	-	-	FMK6/BP-3H	FMK6/BN-3H
M30	Shielded	Enhanced	M12	10mm	-	-	FMT6/BP-3H	FMT6/BN-3H

AC1

Miniature 3-Wire DC Inductive Sensor



Key Features

- Ultra-small diameter - Ø4mm
- LED status indicator
- Stainless steel housing
- IP67 protection rating
- Short circuit & over voltage protection



AC1 Series Selection

	Output Type	Output Logic	Shielded	Sensing Distance	Exit		
AC1/AN-1A	Normally Open (NO)	NPN	Standard	0.8mm	Standard Cable Exit		
AC1/AN-1F			Long Distance		1.5mm	Plug Exit M8	
AC1/AN-3A				PNP		0.8mm	Standard Cable Exit
AC1/AN-3F		Long Distance			1.5mm		Plug Exit M8
AC1/AP-1A			Normally Closed (NC)			NPN	Standard
AC1/AP-1F				Long Distance	1.5mm		Plug Exit M8
AC1/AP-3A	PNP	0.8mm					Standard Cable Exit
AC1/AP-3F					Long Distance	1.5mm	Plug Exit M8
AC1/CN-1A		Normally Closed (NC)		NPN			Standard
AC1/CN-1F	Long Distance					1.5mm	
AC1/CP-1A			PNP		Standard		0.8mm
AC1/CP-1F				Long Distance		1.5mm	

AD1

Miniature 3-Wire DC Inductive Sensor



Key Features

- Ø5mm x 25mm
- LED status indicator
- Stainless steel housing
- High switching speed: 7kHz
- Cable exit & plug-in types available



AD1 Series Selection

	Output Type	Output Logic	Shielded	Sensing Distance	Exit		
AD1/AN-1A	Normally Open (NO)	NPN	Standard	0.8mm	Standard Cable Exit		
AD1/AN-1F			Long Distance		1.5mm	Plug Exit M8	
AD1/AN-3A				PNP		0.8mm	Standard Cable Exit
AD1/AN-3F		Long Distance			1.5mm		Plug Exit M8
AD1/AP-1A			Normally Closed (NC)			NPN	Standard
AD1/AP-1F				Long Distance	1.5mm		Plug Exit M8
AD1/AP-3A	PNP	0.8mm					Standard Cable Exit
AD1/AP-3F					Long Distance	1.5mm	Plug Exit M8
AD1/CN-1A		Normally Closed (NC)		NPN			Standard
AD1/CN-1F	Long Distance					1.5mm	
AD1/CN-3A			PNP		Standard		0.8mm
AD1/CN-3F				Long Distance		1.5mm	
AD1/CP-1A	Normally Closed (NC)				NPN		Standard
AD1/CP-1F			Long Distance			1.5mm	
AD1/CP-3A		PNP		Standard			0.8mm
AD1/CP-3F					Long Distance	1.5mm	

AE / AM / AK

Inductive Analogue Sensor



Key Features

- Analogue output
- Metal housing
- M8, M12 & M18 housing
- Flush mounting



Inductive Analogue Sensor Selection

	Operating Voltage	Sensing Distance (mm)	Output	Exit	Length (mm)
AE1/D1-7A	15-30VDC	4	0-10VDC	Pre-cabled	45
AM1/D2-5A	15-30VDC	6	0-10VDC / 4-20mA	Pre-cabled	50
AM1/D2-5H	15-30VDC	6	0-10VDC / 4-20mA	M12 plug	60
AK6/D2-5A	15-30VDC	10	0-10VDC / 4-20mA	Pre-cabled	36
AK6/D2-5H	15-30VDC	10	0-10VDC / 4-20mA	M12 plug	48.5

NOTE: Some popular options are shown above. For other options, please contact IMO.

UK6 / UKR6

Ultrasonic Sensor M18



Key Features

- Short body
- M18 diffuse and retro-reflective models
- Digital output
- Analogue output
- Plastic or AISI 316L stainless steel housing
- M12 plug exit



Ultrasonic Sensor Selection

	Housing	Detection mode	Operating Voltage	Sensing Distance (mm)	Output	Exit
UKR6A/HP-0E	Plastic	Retroreflective	10-30VDC	50-300	PNP - NO/NC	M12
UK6A/HP-1E	Metal	Diffuse		40-300		
UK6C/HP-1E	Metal			60-800		
UK6A/HP-0E	Plastic			40-300	4-20mA	
UK6D/H2-1E	Metal			80-1200		
UK6C/H2-1E	Metal			60-800	PNP - NO/NC	
UK6A/H2-1E	Metal			40-300		
UK6C/HP-0E	Plastic			60-800	NPN - NO/NC	
UK6A/HN-0E	Plastic			40-300	PNP - NO/NC	
UK6D/HP-1E	Metal			80-1200	0-10VDC	
UK1F/E1-0E	Plastic			200-2200	4-20mA	
UK1A/G2-0E	Plastic			50-400	2 x PNP - NO/NC	
UK1C/GW-0E	Plastic			100-900		

NOTE: Some popular options are shown above. For other options, please contact IMO.

UT2

Ultrasonic Sensor M30



Key Features

- Models with voltage or current outputs programmable slope to optimize resolution
- Adjustable working area (window mode or object mode) by Teach-in button available on all models for quick and easy installation
- Plastic or AISI 316L stainless steel housing

UT2 Series Selection

	Housing	Detection mode	Operating Voltage	Sensing Distance (mm)	Output	Exit
UT2F/E2-0E	Plastic	Diffuse	15-30VDC	350-6000	4-20mA	M12 plug

C30P / C30M

Capacitive Sensor M30



Key Features

- Plastic or metal housing
- DC or AC versions
- High noise immunity
- Adjustable sensitivity
- Pre-cabled or M12 plug versions

Capacitive Sensor Selection

	Housing	Source - Detection mode	Operating Voltage	Sensing Distance (mm)	Output	Exit
C30P/00-1A	Plastic	Shielded	20-250VAC	16	NO + NC - SCR	Pre-cabled
C30P/00-1E						M12 plug
C30P/BP-1E						M12 plug
C30M/00-1E	Stainless Steel		10-40VDC		NO + NC - NPN	M12 plug
C30M/BN-1A						Pre-cabled
C30M/BN-1E						M12 plug
C30M/BP-1E		M12 plug				

NOTE: Some popular options are shown above. For other options, please contact IMO.

C18P

Capacitive Sensor M18



Key Features

- Plastic housing
- DC or AC versions
- High noise immunity
- Adjustable sensitivity
- Pre-cabled or M12 plug versions

C18P Series Selection

	Housing	Mounting	Operating Voltage	Sensing Distance (mm)	Output	Exit
C18P/A0-1E	Plastic	Shielded	20-250VAC	8	NO - SCR	M12 plug
C18P/BP-1A			10-40VDC		NO+NC - PNP	Pre-cabled
C18P/BP-1E			10-40VDC		NO+NC - PNP	M12 plug

NOTE: Some popular options are shown above. For other options, please contact IMO.

AA1

Miniature Cylindrical Inductive Sensor



Key Features

- Ultra-miniaturised inductive sensors Ø3mm
- IP65 protection rating
- Metal housing
- 2m PUR cable exit
- 10-30VDC
- CE, UL and cUL approved



AA1 Series Selection

	Output Type	Output Logic	Sensing Distance	Exit
AA1/AN-1A	Normally Open (NO)	NPN	0.6mm	Standard Cable Exit
AA1/AN-1F				Plug Exit M8
AA1/AN-3A			Standard Cable Exit	
AA1/AN-3F		Plug Exit M8		
AA1/AP-1A		PNP	0.6mm	Standard Cable Exit
AA1/AP-1F				Plug Exit M8
AA1/AP-3A	Standard Cable Exit			
AA1/AP-3F	Plug Exit M8			
AA1/CN-1A	Normally Closed (NC)	NPN	0.6mm	Standard Cable Exit
AA1/CN-1F				Plug Exit M8
AA1/CP-1A		PNP		Standard Cable Exit
AA1/CP-1F				Plug Exit M8