

И

NAMUR, AC, IS

О

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NAMUR Sensor

OVERVIEW

The function of limiting power is realized in the respective device and must be provided through an isolation amplifier suitable. Versions are available in 12, 18 or 30 mm in diameter, with outputs cable or with standard M12 connector. There are millions of inductive sensors deployed in almost every area of factory automation. They detect metal objects contactless and are distinguished by a long operating life and extreme robustness. The Datalogic inductive family provides the right solution to market requirements, offering a wide range of cylindrical and rectangular standard sensors with one or two set switching distances, available also with two, three or four wires connection models, short and standard housing and cable or connector version. Stainless steel version for both harsh environments Ex-zone or for FOOD applications.



Inductive AC Sensor

```
mirror_mod.use_z = False  
operation = "MIRROR_Z"  
mirror_mod.use_x = False  
mirror_mod.use_y = False
```

OVERVIEW

The function of limiting power is realized in the respective device and must be provided through an isolation amplifier suitable. Versions are available in 12, 18 or 30 mm in diameter, with outputs cable or with standard M12 connector. There are millions of inductive sensors deployed in almost every area of factory automation. They detect metal objects contactless and are distinguished by a long operating life and extreme robustness. The Datalogic inductive family provides the right solution to market requirements, offering a wide range of cylindrical and rectangular standard sensors with one or two set switching distances, available also with two, three or four wires connection models, short and standard housing and cable or connector version. Stainless steel version for both harsh environments Ex-zone or for FOOD applications.



Square

OVERVIEW

The Inductive sensors of the 8×8 Square line are made in a rectangular container 8×8 mm, available in version with cable or M8 connector, for a different and easier mounting in a sturdy nickel-plated brass housing. The Inductive sensors of the 40×40 Square line are made in a rectangular container in plastic PBT of dimensions 40×40 mm. They are versatile and flexible for various applications in the machinery thanks to the connector rotatable in any direction, allowing to have the cable always directed in the desired direction. Inside the sensor are present the wiring terminals, accessible by removing pressure plates to self-lifting. The sensor head is adjustable in 5 different positions for easy adaptation to any application.



Stainless Steel Sensor

OVERVIEW

There are millions of inductive sensors deployed in almost every area of factory automation. They detect metal objects contactless and are distinguished by a long operating life and extreme robustness. The Datalogic inductive family provides the right solution to market requirements, offering a wide range of cylindrical and rectangular standard sensors with one or two set switching distances, available also with two, three or four wires connection models, short and standard housing and cable or connector version. Stainless steel version for both harsh environments Ex-zone or for FOOD applications.



Weld Field Immune

```
mirror_mod.use_z = False  
operation = "MIRROR_Z"  
mirror_mod.use_x = False  
mirror_mod.use_y = False
```

OVERVIEW

These models feature a PTFE active face offering superior resistance to weld-slag buildup. Versions are available with a diameter of 12 or 18 mm with M12 standard connector. There are millions of inductive sensors deployed in almost every area of factory automation. They detect metal objects contactless and are distinguished by a long operating life and extreme robustness. The Datalogic inductive family provides the right solution to market requirements, offering a wide range of cylindrical and rectangular standard sensors with one or two set switching distances, available also with two, three or four wires connection models, short and standard housing and cable or connector version. Stainless steel version for both harsh environments Ex-zone or for FOOD applications.



PROXIMITY INDUCTIVE SENSORS

IS series

Proximity inductive sensors

- M4 to M30 tubular housing
- AISI 316L stainless steel versions
- 1 - 20 mm detection distance
- 10-30 Vdc, 2, 3 or 4 wire NPN/PNP versions
- 24-230 Vac, 2 wire versions



NEW MODELS

The inductive sensors represent a complementary solution to photoelectric sensors in applications based on critical light reflection and transmission. Voltage to the device creates an alternate inductive field through an oscillator coil before its active surface. If a metal object (iron, aluminium, copper, brass, etc) enters this field, it damps the oscillator and reverses the trigger threshold and causes a change in the output stage status. Inductive sensors can be used, for example, for non-contact detection of exclusively metal targets.

Proximity inductive sensors






SERIES			M4/M5	M8
Operating distance			0.8 mm	2 mm, shielded models 3 mm, unshielded models
		Repeatability	≤ 1%	≤ 3%
		Hysteresis	< 10%	< 10%
		Ripple	≥ 10%	≥ 10%
		Switching frequency	2000 Hz	1000 Hz
		Indicators	Yellow LED	Yellow LED
TECHNICAL DATA	Power supply	Vdc	10 ... 30, 3 wires	10 ... 30, 3 wires
		Vac		
		Vac/dc		
	Output	2 wires NO/NC	•	•
		3 wires NPN/PNP NO/NC		
		4 wires NPN/PNP NO+NC		
		4 wires programmable		
		other		
	Connections	cable	•	•
		M8 connector	•	•
		M12 connector		•
	Housing		standard	standard short
	Housing material		AISI-316L stainless steel	NI plated brass
	Mechanical protection		IP67	IP67

PROXIMITY INDUCTIVE SENSORS

Proximity inductive sensors



SERIES			M8 2X	M12
	Operating distance		2 mm, shielded models 3 mm, unshielded models	2 mm, shielded models 4 mm, unshielded models
	Repeatability		≤ 3%	≤ 3%
	Hysteresis		< 10%	< 10%
	Ripple		≥ 10%	≥ 10%
	Switching frequency		500 Hz	1000 Hz
	Indicators		Yellow LED	Yellow LED
TECHNICAL DATA	Power supply	Vdc	10 ... 30. 2 wires 	10 ... 30. 2. 3 and 4 wires 
		Vac		
		Vac/dc		
	Output	2 wires NO/NC	.	.
		3 wires NPN/PNP NO/NC		.
		4 wires NPN/PNP NO+NC		.
		4 wires programmable		.
		other		
	Connections	cable	.	.
		M8 connector	.	.
		M12 connector	.	.
	Housing		standard short	standard short
Housing material		NI plated brass	NI plated brass AISI-316L stainless steel	
Mechanical protection		IP67	IP67	

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PROXIMITY INDUCTIVE SENSORS

Proximity inductive sensors



SERIES			M30	M30 2X
Operating distance			10 mm, shielded models 15 mm, unshielded models	15 mm, shielded models 20 mm, unshielded models
Repeatability			≤ 3%	≤ 3%
Hysteresis			< 10%	< 10%
Ripple			≥ 10%	≥ 10%
Switching frequency			300 Hz	200 Hz
Indicators			Yellow LED	Yellow LED
TECHNICAL DATA	Power supply	Vdc	10 ... 30, 2.3 and 4 wires	10 ... 30, 2.3 and 4 wires
		Vac		
		Vac/dc		
	Output	2 wires NO/NC	•	•
		3 wires NPN/PNP NO/NC	•	•
		4 wires NPN/PNP NO+NC	•	•
		4 wires programmable	•	•
		other		
	Connections	cable	•	•
		M8 connector	•	•
		M12 connector	•	•
	Housing		standard short	standard short
Housing material			NI plated brass	NI plated brass
Mechanical protection			IP67	IP67

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