

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 Vac Vac/dc	10 ... 30, 3 wires 	10 ... 30, 3 wires 
	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 Vac Vac/dc	10 ... 30. 2 wires	10 ... 30. 2. 3 and 4 wires
	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





M12 2X	M18	M18 2X
4 mm, shielded models 8 mm, unshielded models	5 mm, shielded models 8 mm, unshielded models	8 mm, shielded models 14 mm, unshielded models
≤ 3%	≤ 3%	≤ 3%
< 10%	< 10%	< 10%
≥ 10%	≥ 10%	≥ 10%
500 Hz	1000 Hz	400 Hz
Yellow LED	Yellow LED	Yellow LED
10 ... 30, 2, 3 and 4 wires	10 ... 30, 2, 3 and 4 wires	10 ... 30, 2, 3 and 4 wires
•	•	•
•	•	•
•	•	•
•	•	•
•	•	•
•	•	•
•	•	•
standard short	standard short	standard short
NI plated brass AISI-316L stainless steel	NI plated brass AISI-316L stainless steel	NI plated brass AISI-316L stainless steel
IP67	IP67	IP67

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 Vac Vac/dc	10 ... 30. 2.3 and 4 wires 
	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
Housing material		NI plated brass	NI plated brass
Mechanical protection		IP67	IP67