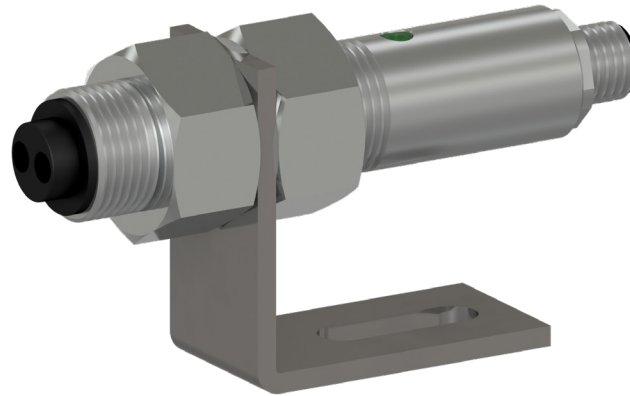




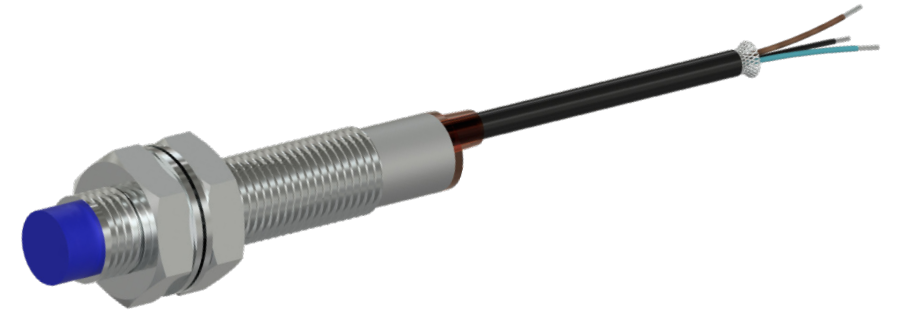
LS100-M12A VS. IN100 SHAFT SPEED SENSORS

COMPARISON CHART

LS100-M12A
Optical Laser Sensor



IN100
Inductive Proximity Sensor



Principle	Reflected visible red laser beam	Eddy currents in metal target
Speed Range	1-250,000 RPM	1-24,000 RPM (maximum speed)
Sensing Distance	1 in. to 25 ft. (25,4 mm to 7,62 m)	0.15 in. (4 mm) maximum sensing distance
Low RPM Accuracy	Good with fine targets	Moderate (single target)
Target Material	Works on any target material when used with reflective tape, including wood, paper, plastic, rubber, and metal	Target must be metal; non-ferrous metals reduce range: Iron - 100% rated distance Stainless steel - 50% rated distance Brass, aluminum, copper - 40% rated distance
Minimum Target Size	n/a	0.45 in. (12 mm) diameter
On-Target Indicator	Green LED indicator confirms alignment without a separate meter	Red LED indicator provides quick visual confirmation of setup without additional tools
Input Power Required	10-24 Vdc	3-36 Vdc
Housing Material	316L stainless steel and ABS nosepiece	Brass housing
Output	Open connector / TTL compatible	PNP open connector
Environment	IP67-rated housing; clean optical path required	IP67-rated resistant to dust and oil
Best For	Non-metal targets Long distances High RPM range	Metal shafts Conveyors Machine tools