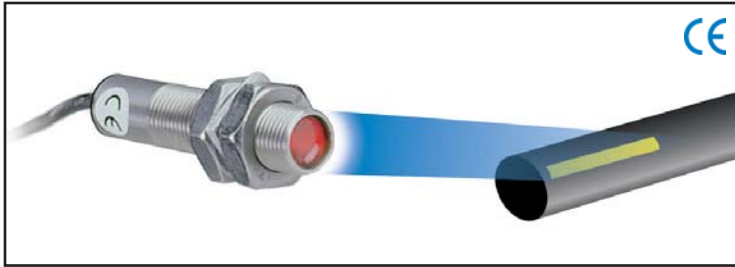
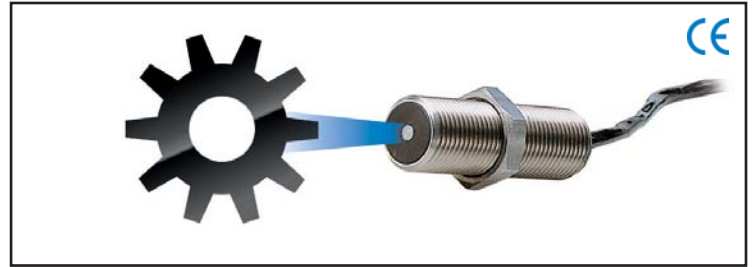


for Tachometers & Stroboscopes or stand alone use



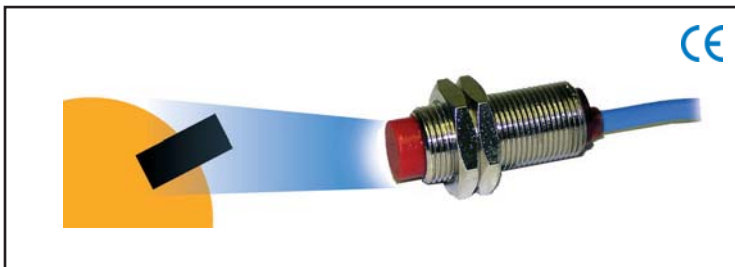
Optical (1-250,000 RPM) Most versatile and popular.

ROS (Remote Optical Sensor): Threaded stainless steel remote optical sensors have a visible red LED light source and green LED 'On Target' indicator. Performs over a wide speed range and operating envelope. Modulated and High Temperature versions available (to 257°F).
Common usage: Wide range of general purpose applications in relatively clean environments.



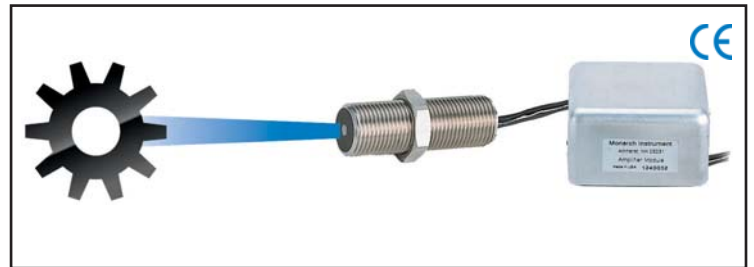
Magnetic (1-99,999 RPM) Self-powered gear sensor.

M-190W or M-190P: Most popular sensor for use with 60 tooth 20 pitch gears. Sensor mounts within 0.005 inches (0.127 mm) of a minimum 0.1 inch (2.5 mm) target. Requires no power from the display module and self-generates an AC signal.
Common usage: Ferrous metals, primarily gear teeth.



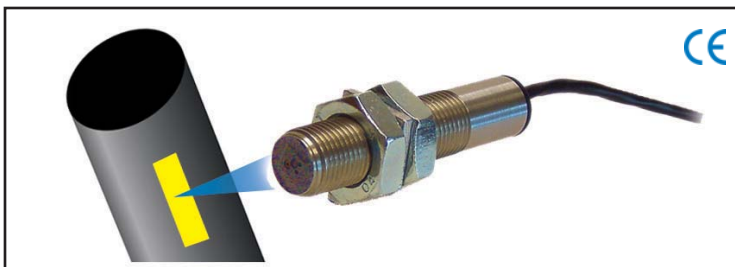
Proximity (1-60,000 RPM) Rugged industrial sensor.

P5-11: A two wire probe style inductive sensor for use up to 0.2 inches (5 mm) from 0.5 inch (12 mm) metallic target such as bolt head or shaft locking key. **Common usage:** Permanent installation in harsh industrial environments.



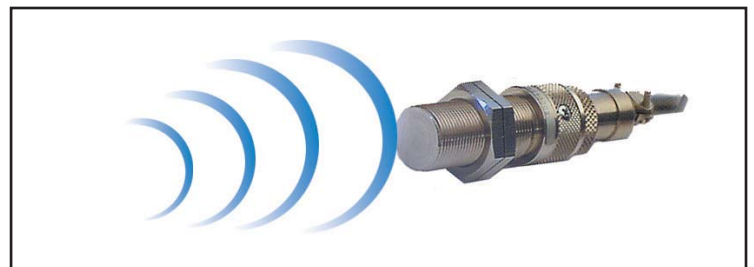
Magnetic with Amplifier Module (1-99,999 RPM) Amplifier enhances performance of M-190 magnetic sensor.

MT-190W or MT-190P: Amplifier extends operating gap to 0.25 inches (6.35 mm) from the target. Frequently used on gears as the M-190, but can also sense bolt heads or shaft keys and provides a 0-5V TTL output signal.
Common usage: Ferrous metals including bolt heads or shaft keys in addition to gear teeth.



Infrared (1-999,990 RPM) Reliable high speed sensor.

IRS-W or IRS-P: Ideal sensor for working 0.5 to 1.0 inch (12 to 25 mm) from high speed equipment or other applications providing only contrasting light and dark surfaces or beam interruption by solid objects.
Common usage: Dentist and other high speed drills, slots or gear teeth. Does not require reflective tape.



Inductive (200-20,000 RPM) Gasoline Engine RPM.

GE-200: Ideal sensor for gasoline engine RPM, working 0.5 to 4.0 inches (12 to 100 mm) from ignition coil or magneto.
Common usage: 2-cycle and 4-cycle gasoline engines.
NOTE: Additional cable length for all sensors (up to 500 feet) can be purchased and added in the field.

Specifications	ROS-W or P	P5-11	IRS-W or P	M-190W or P	MT-190W or P	GE-200
Operating Distance	3 feet (1 m) and 45° from reflective tape	0.2" (5 mm) from 0.5" (12 mm) metallic target	0.5 to 1.0" (12 to 25 mm) sensing gap	0.005" (0.127 mm) gap with 0.1" target (2.5 mm) minimum	0.25" (6.35 mm) gap with 0.1" target (2.5 mm) minimum	up to 4 inches (100 mm)
Speed Range	1-250,000 RPM	1-60,000 RPM	1-999,990 RPM	1-99,999 RPM		200-20,000 RPM
Operating Temperature	-14° to 158°F (-10° to 70°C)	-4° to 140°F (-20° to 60° C)	-10° to 212° F (-23° to 100°C)	-100° to 225°F (-73° to 107°C)		0° to 175°F (-18° to 80°C)
Power required	3.3 to 15 Vdc @ 45 mA	7.7 to 9 Vdc, 3 mA	3.3 to 15 Vdc	Self Generating	3.3 to 24 Vdc, 4 mA	
Output Signal	Same as source	Namur (DIN 19 234)	Same as source	190V P-P	Same as source	
Standard Cable	8 feet (3.5 m)	6 feet (1.8 m)		8 feet (3.5 m)		15 feet (4.7 m)
Dimensions	2.90" x 0.625" diameter (73 x 16 mm)	1.3" (L) x 0.43" (32 x 11 mm)	2.90" x 0.625" diameter (73 x 16 mm)	2.0" (L) x 0.625" (50 x 16 mm)		2.16 x 0.82" dia. (55 x 21 mm)

W = tinned wire leads P = 1/8" (3.5 mm) phone plug connector. ROS is available with 8 or 25 foot cable.